

TSCA INFORMATION NOW CURRENT THROUGH January 11, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading c:\stnexp4\queries\09585925.str

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> s l1

SAMPLE SEARCH INITIATED 09:42:19 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 21792 TO ITERATE

4.6% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**

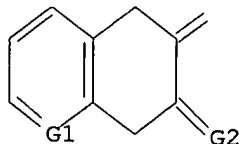
PROJECTED ITERATIONS: 427045 TO 444635
PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C,N

G2 O,S,N

Structure attributes must be viewed using STN Express query preparation.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading c:\stnexp4\queries\09585925.str

L4 STRUCTURE UPLOADED

=> que L4

L5 QUE L4

=> s 14

SAMPLE SEARCH INITIATED 09:43:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 214 TO ITERATE

100.0% PROCESSED 214 ITERATIONS
SEARCH TIME: 00.00.01

39 ANSWERS

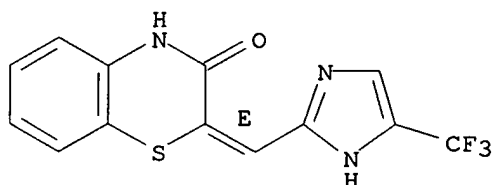
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3403 TO 5157
PROJECTED ANSWERS: 406 TO 1154

L6 39 SEA SSS SAM L4

=> d scan

L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(trifluoromethyl)-1H-imidazol-2-yl]methylene]-, (2E)- (9CI)
MF C13 H8 F3 N3 O S

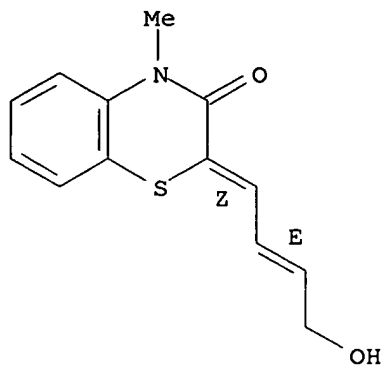
Double bond geometry as shown.



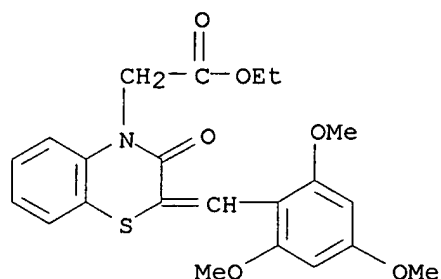
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2H-1,4-Benzothiazin-3(4H)-one,
2-[(2E)-4-hydroxy-2-butenylidene]-4-methyl-, (2Z)- (9CI)
MF C13 H13 N O2 S

Double bond geometry as shown.

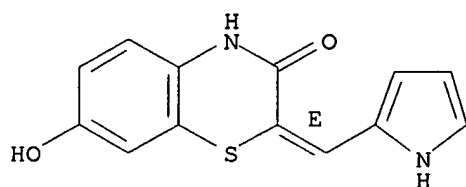


L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 4H-1,4-Benzothiazine-4-acetic acid, 2,3-dihydro-3-oxo-2-[(2,4,6-trimethoxyphenyl)methylene]-, ethyl ester (9CI)
 MF C22 H23 N O6 S

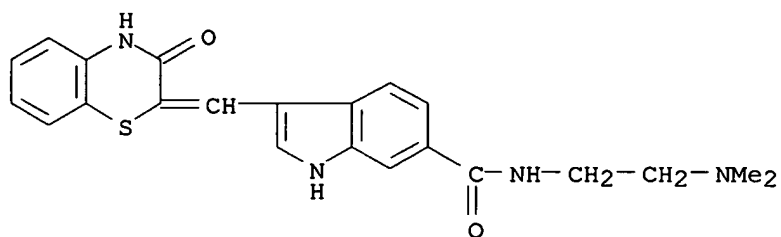


L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-(1H-pyrrol-2-ylmethylene)-, (2E)-(9CI)
 MF C13 H10 N2 O2 S

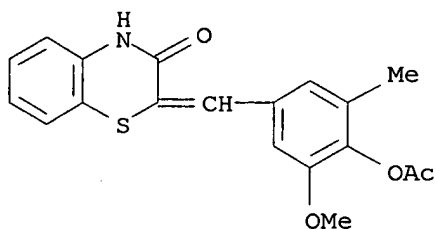
Double bond geometry as shown.



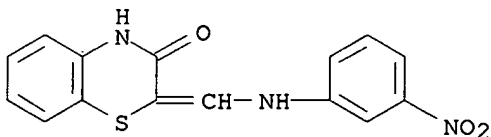
L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]- (9CI)
 MF C22 H22 N4 O2 S



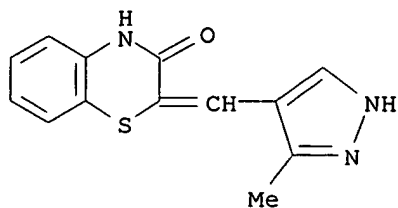
L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3-methoxy-5-methylphenyl]methylene]- (9CI)
 MF C19 H17 N O4 S



L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(nitrophenyl)amino]methylene]- (9CI)
 MF C15 H11 N3 O3 S



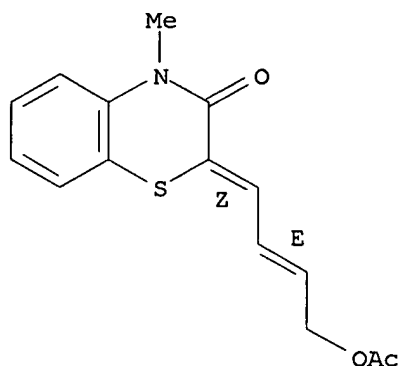
L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-methyl-1H-pyrazol-4-yl)methylene]- (9CI)
 MF C13 H11 N3 O S



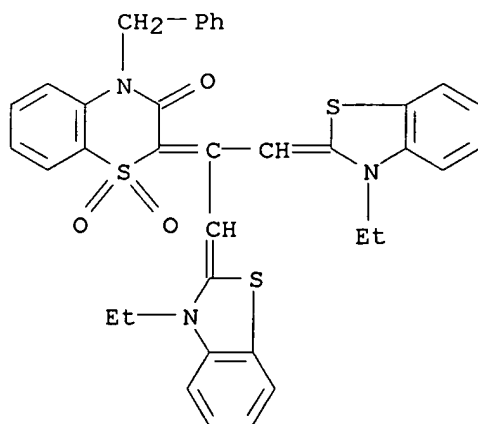
L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-(acetyloxy)-2-butenylidene]-4-methyl-, (2Z)- (9CI)
 MF C15 H15 N O3 S

Double bond geometry as shown.

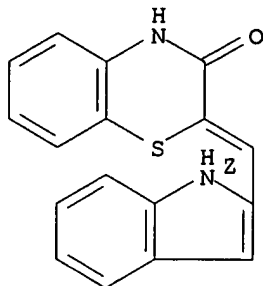


L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[2-(3-ethyl-2(3H)-benzothiazolylidene)-1-
 [(3-ethyl-2(3H)-benzothiazolylidene)methyl]ethylidene]-4-(phenylmethyl)-,
 1,1-dioxide (9CI)
 MF C36 H31 N3 O3 S3



L6 39 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-2-ylmethylene)-, (2Z)- (9CI)
 MF C17 H12 N2 O S

Double bond geometry as shown.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> fil stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.24	1.39

FILE 'STNGUIDE' ENTERED AT 09:44:37 ON 19 MAY 2001
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
 COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: May 11, 2001 (20010511/UP).

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.00	1.39

FILE 'REGISTRY' ENTERED AT 09:49:50 ON 19 MAY 2001
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 18 MAY 2001 HIGHEST RN 336783-59-6
 DICTIONARY FILE UPDATES: 18 MAY 2001 HIGHEST RN 336783-59-6

TSCA INFORMATION NOW CURRENT THROUGH January 11, 2001

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
 for details.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading c:\stnexp4\queries\09585925.str

L7 STRUCTURE UPLOADED

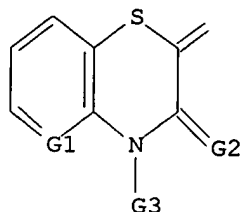
=> que L7

L8 QUE L7

=> d 17

L7 HAS NO ANSWERS

L7 STR



G1 C,N

G2 O,S,N

G3 Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

Structure attributes must be viewed using STN Express query preparation.

=> y

Y IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> s 17

SAMPLE SEARCH INITIATED 09:50:26 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 137 TO ITERATE

100.0% PROCESSED 137 ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 2038 TO 3442

PROJECTED ANSWERS: 5 TO 233

L9 5 SEA SSS SAM L7

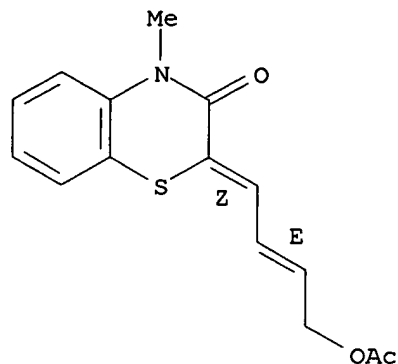
=> d scan

L9 5 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-(acetyloxy)-2-butenylidene]-4-methyl-, (2Z)- (9CI)

MF C15 H15 N O3 S

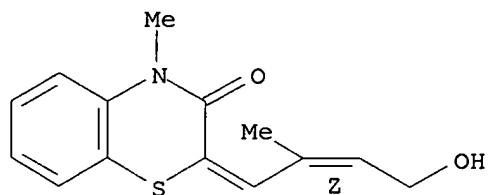
Double bond geometry as shown.



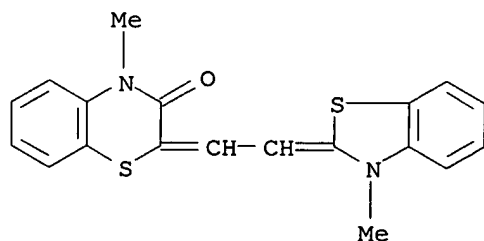
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L9 5 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-2-methyl-2-butenylidene)-4-methyl-, (? ,Z)- (9CI)
 MF C14 H15 N O2 S

Double bond geometry as described by E or Z.

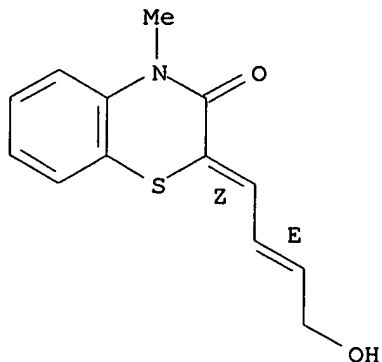


L9 5 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[2-(3-methyl-2-benzothiazolinyldene)ethylidene]- (8CI)
 MF C19 H16 N2 O S2

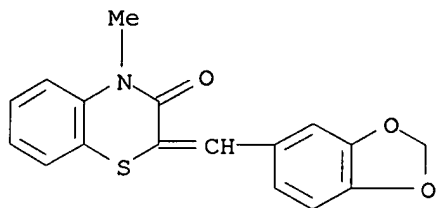


L9 5 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-hydroxy-2-butenylidene]-4-methyl-, (2Z)- (9CI)
 MF C13 H13 N O2 S

Double bond geometry as shown.



L9 5 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2H-1,4-Benzothiazin-3(4H)-one,
 2-(1,3-benzodioxol-5-ylmethylene)-4-methyl-
 (9CI)
 MF C17 H13 N O3 S



ALL ANSWERS HAVE BEEN SCANNED

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading c:\stnexp4\queries\09585925.str

L10 STRUCTURE UPLOADED

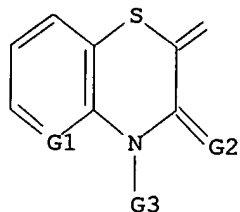
=> que L10

L11 QUE L10

=> d l10

L10 HAS NO ANSWERS

L10 STR



G1 C,N

G2 O,S,N

G3 Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,H

Structure attributes must be viewed using STN Express query preparation.

=> s 110

SAMPLE SEARCH INITIATED 09:51:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 214 TO ITERATE

100.0% PROCESSED 214 ITERATIONS
SEARCH TIME: 00.00.01

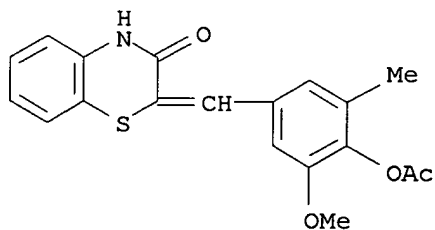
26 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3403 TO 5157
PROJECTED ANSWERS: 215 TO 825

L12 26 SEA SSS SAM L10

=> d scan

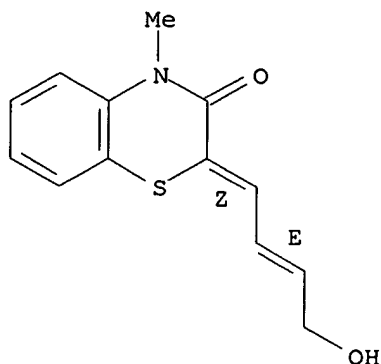
L12 26 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3-methoxy-5-methylphenyl]methylene]- (9CI)
MF C19 H17 N O4 S



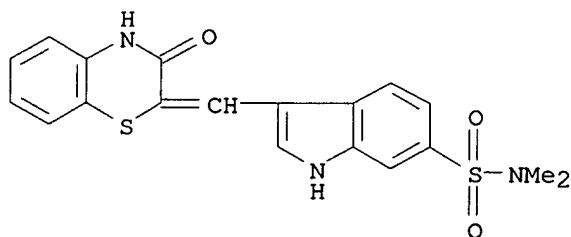
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L12 26 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2H-1,4-Benzothiazin-3(4H)-one,
2-[(2E)-4-hydroxy-2-butenylidene]-4-methyl-, (2Z)- (9CI)
MF C13 H13 N O2 S

Double bond geometry as shown.



L12 26 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-Indole-6-sulfonamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N,N-dimethyl- (9CI)
 MF C19 H17 N3 O3 S2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):edn

'EDN' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> s 110 ful

FULL SEARCH INITIATED 09:52:31 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 4251 TO ITERATE

100.0% PROCESSED 4251 ITERATIONS
 SEARCH TIME: 00.00.02

470 ANSWERS

L13 470 SEA SSS FUL L10

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY
 134.80

SESSION
 136.19

FILE 'CAPLUS' ENTERED AT 09:52:42 ON 19 MAY 2001

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FILE COVERS 1947 - 19 May 2001 VOL 134 ISS 22
FILE LAST UPDATED: 18 May 2001 (20010518/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> s l13

L14 74 L13

=> d ibib abs hitstr 1-

YOU HAVE REQUESTED DATA FROM 74 ANSWERS - CONTINUE? Y/(N):y

L14 ANSWER 1 OF 74 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:881149 CAPLUS
DOCUMENT NUMBER: 134:42147
TITLE: Preparation and effects of benzothiazinones and
benzoxazinones as protein kinase inhibitors
INVENTOR(S): Rafferty, Paul; Calderwood, David; Arnold, Lee D.;
Gonzalez Pascual, Beatriz; Ortego Martinez, Jose L.;
Perez de Vega, Maria J.; Fernandez, Isabel F.
PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 183 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000075139	A2	20001214	WO 2000-US15324	20000602
WO 2000075139	A3	20010329		

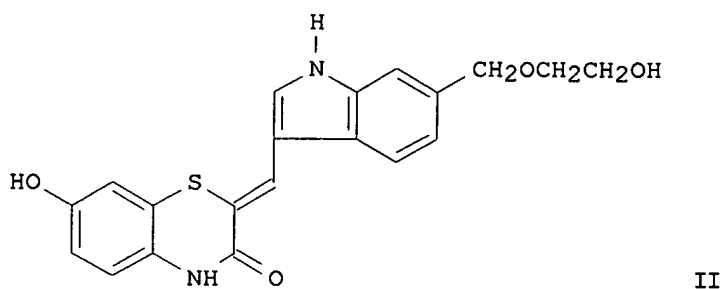
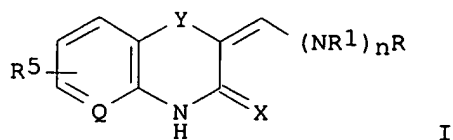
W: AU, BG, BR, CA, CN, CZ, HR, HU, ID, IL, IN, JP, KR, MX, NO, NZ,

PL, RU, SG, SK, TR, UA, US, ZA
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE

PRIORITY APPLN. INFO.: US 1999-137410 P 19990603

OTHER SOURCE(S): MARPAT 134:42147

GI



AB Title compds. [I; Q = N, CR2; X = S, O, NOR3; Y = S, O, SO, SO2; R, R1 independently = H, aliph., aryl, heterocyclyl; R2 = H, CH3; R3 = H, COR4; R4 = alkyl, alkenyl, alkynyl, aryl; n = 0, 1; R5 = 7-Cl, 7-CH3, 6-CF3, 6-CH3, 6-Cl, 7-OCH3, 6-CH3CONH, 7-OH, etc.] are prepd. Title compds. and physiol. acceptable salts are inhibitors of receptor tyrosine kinase or non-receptor tyrosine kinase activity which involve in angiogenic process.

Thus, title compds. can ameliorate disease states where angiogenesis or endothelial cell hyperproliferation is a factor and can be used to treat cancer and hyperproliferative disorders. Title compd. II was prepd.

IT 312970-19-7P 312970-35-7P 312970-49-3P
 312972-81-9P 312972-84-2P 312973-50-5P

RL: BAC (Biological activity or effector, except adverse); RCT

(Reactant);

SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

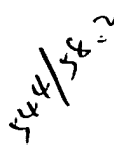
(prepn. and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors)

RN 312970-19-7 CAPLUS

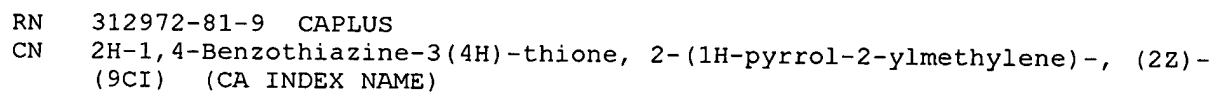
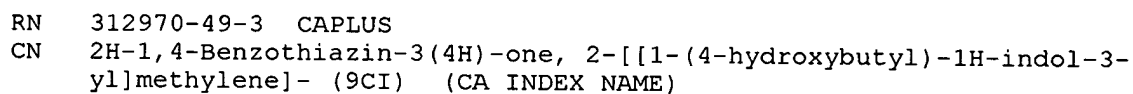
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-nitro-2-(1H-pyrrol-2-ylmethylene)-, (2Z)-

(9CI) (CA INDEX NAME)

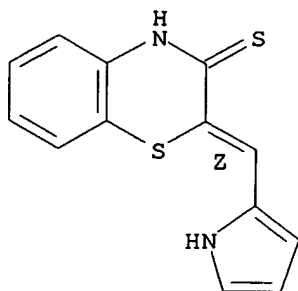
Double bond geometry as shown.



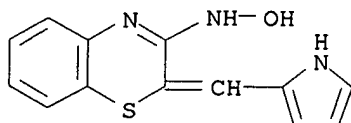
Double bond geometry as shown.



Double bond geometry as shown.

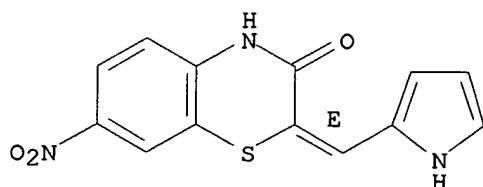


RN 312972-84-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-, oxime (9CI)
 (CA INDEX NAME)



RN 312973-50-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-nitro-2-(1H-pyrrol-2-ylmethylene)-,
 (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 312970-15-3P 312970-16-4P 312970-17-5P
 312970-18-6P 312970-20-0P 312970-21-1P
 312970-22-2P 312970-23-3P 312970-24-4P
 312970-25-5P 312970-26-6P 312970-27-7P
 312970-28-8P 312970-29-9P 312970-30-2P
 312970-31-3P 312970-32-4P 312970-33-5P
 312970-34-6P 312970-36-8P 312970-37-9P
 312970-38-0P 312970-39-1P 312970-40-4P
 312970-41-5P 312970-42-6P 312970-43-7P
 312970-44-8P 312970-45-9P 312970-46-0P
 312970-47-1P 312970-48-2P 312970-50-6P
 312970-51-7P 312970-52-8P 312970-53-9P
 312970-54-0P 312970-55-1P 312970-56-2P
 312970-57-3P 312970-58-4P 312970-59-5P
 312970-60-8P 312970-61-9P 312970-62-0P
 312970-63-1P 312970-64-2P 312970-65-3P
 312970-66-4P 312970-67-5P 312970-68-6P
 312970-69-7P 312970-70-0P 312970-71-1P
 312970-72-2P 312970-73-3P 312970-74-4P
 312970-75-5P 312970-76-6P 312970-77-7P
 312970-78-8P 312970-79-9P 312970-80-2P
 312970-81-3P 312970-82-4P 312970-83-5P
 312970-84-6P 312970-85-7P 312970-86-8P

312970-87-9P 312970-88-0P 312970-89-1P
 312970-90-4P 312970-91-5P 312970-92-6P
 312970-93-7P 312970-94-8P 312970-95-9P
 312970-96-0P 312970-97-1P 312970-98-2P
 312970-99-3P 312971-00-9P 312971-01-0P
 312971-02-1P 312971-03-2P 312971-04-3P
 312971-05-4P 312971-06-5P 312971-07-6P
 312971-08-7P 312971-09-8P 312971-10-1P
 312971-11-2P 312971-12-3P 312971-13-4P
 312971-14-5P 312971-15-6P 312971-16-7P
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 312971-32-7P 312971-33-8P 312971-34-9P
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 312971-38-3P 312971-39-4P 312971-40-7P
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 312971-44-1P 312971-45-2P 312971-46-3P
 312971-47-4P 312971-48-5P 312971-49-6P
 312971-50-9P 312971-51-0P 312971-52-1P
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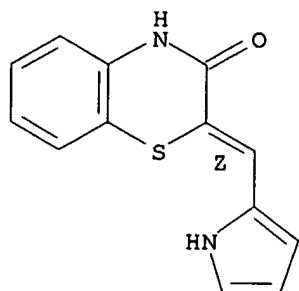
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors)

RN 312970-15-3 CAPLUS

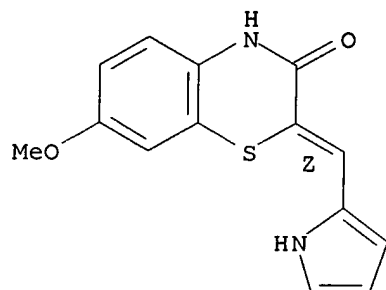
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-, (2Z)- (9CI)
 (CA INDEX NAME)

Double bond geometry as shown.



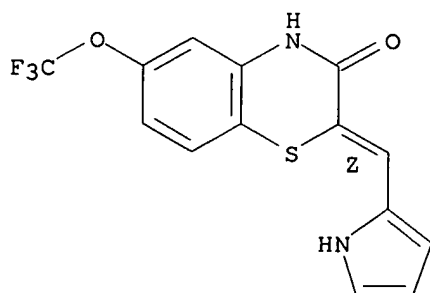
RN 312970-16-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methoxy-2-(1H-pyrrol-2-ylmethylene)-,
(2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



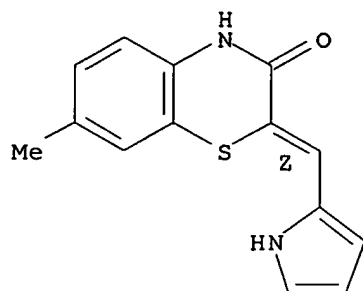
RN 312970-17-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-6-
(trifluoromethoxy)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



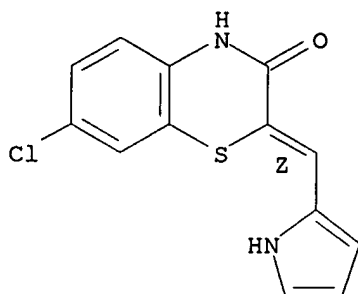
RN 312970-18-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methyl-2-(1H-pyrrol-2-ylmethylene)-,
(2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



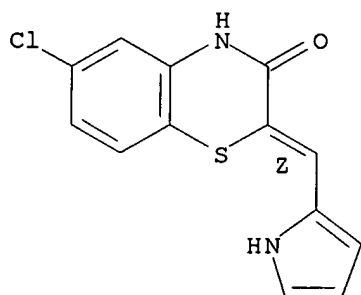
RN 312970-20-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-chloro-2-(1H-pyrrol-2-ylmethylene)-,
 (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



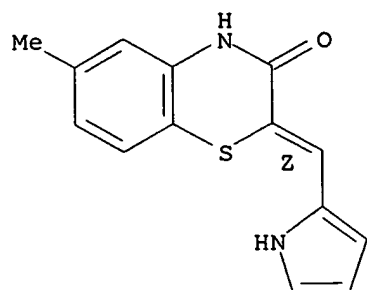
RN 312970-21-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(1H-pyrrol-2-ylmethylene)-,
 (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



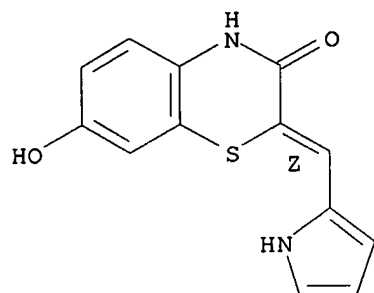
RN 312970-22-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 6-methyl-2-(1H-pyrrol-2-ylmethylene)-,
 (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



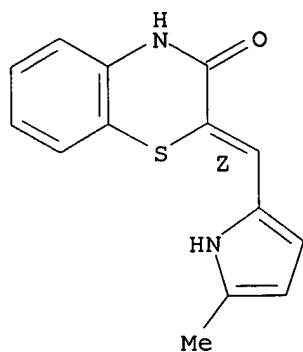
RN 312970-23-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-(1H-pyrrol-2-ylmethylene)-,
 (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



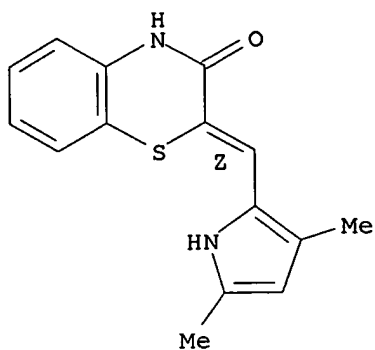
RN 312970-24-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-pyrrol-2-yl)methylene]-,
 (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



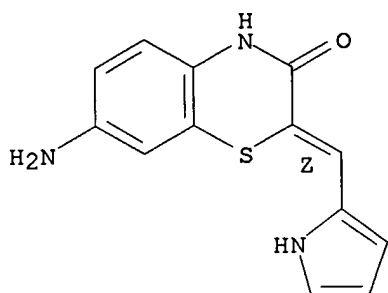
RN 312970-25-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[(3,5-dimethyl-1H-pyrrol-2-yl)methylene]-,
 (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

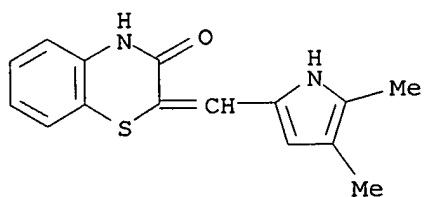


RN 312970-26-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-amino-2-(1H-pyrrol-2-ylmethylene)-,
 (2Z)-
 (9CI) (CA INDEX NAME)

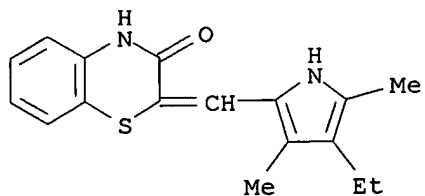
Double bond geometry as shown.



RN 312970-27-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[(4,5-dimethyl-1H-pyrrol-2-yl)methylene]-
 (9CI) (CA INDEX NAME)

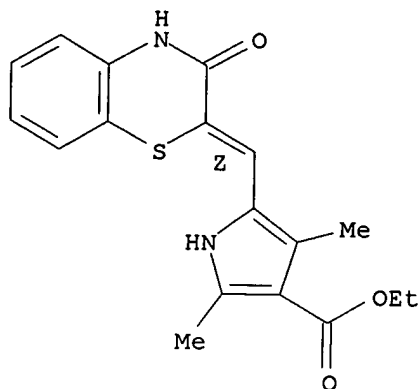


RN 312970-28-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-ethyl-3,5-dimethyl-1H-pyrrol-2-yl)methylene]- (9CI) (CA INDEX NAME)



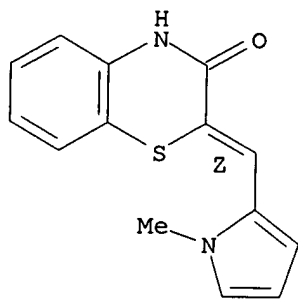
RN 312970-29-9 CAPLUS
 CN 1H-Pyrrole-3-carboxylic acid, 5-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2,4-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



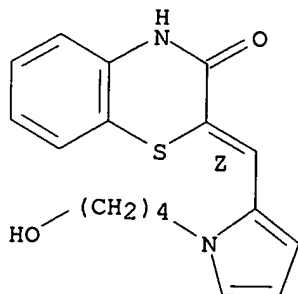
RN 312970-30-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-pyrrol-2-yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312970-31-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(4-hydroxybutyl)-1H-pyrrol-2-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

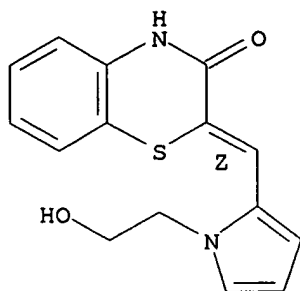
Double bond geometry as shown.



RN 312970-32-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-hydroxyethyl)-1H-pyrrol-2-

yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

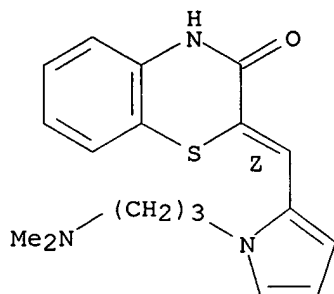
Double bond geometry as shown.



RN 312970-33-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[[1-[3-(dimethylamino)propyl]-1H-pyrrol-2-
yl)methylene]-, (2Z)- (9CI) (CA INDEX NAME)

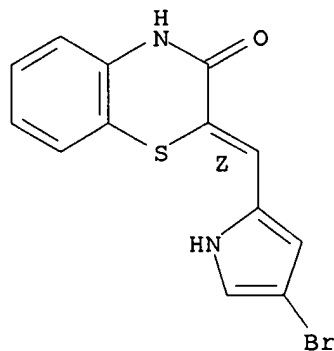
Double bond geometry as shown.



RN 312970-34-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-bromo-1H-pyrrol-2-yl)methylene]-,
(2Z)- (9CI) (CA INDEX NAME)

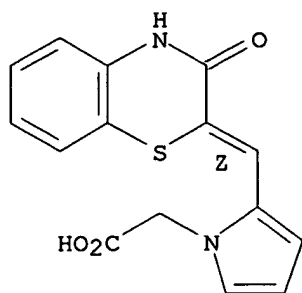
Double bond geometry as shown.



RN 312970-36-8 CAPLUS

CN 1H-Pyrrole-1-acetic acid,
2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-
ylidene)methyl]- (9CI) (CA INDEX NAME)

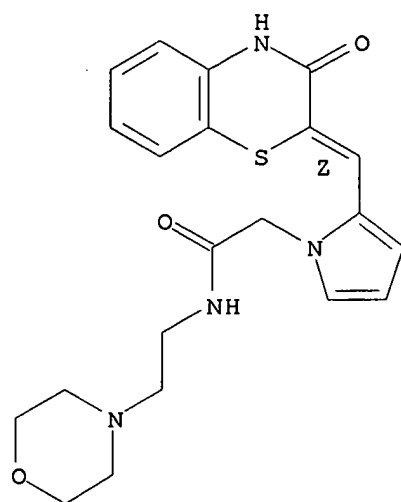
Double bond geometry as shown.



RN 312970-37-9 CAPLUS

CN 1H-Pyrrole-1-acetamide, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

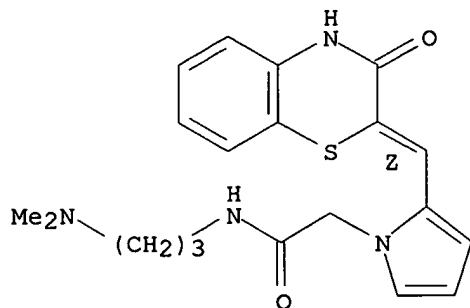
Double bond geometry as shown.



RN 312970-38-0 CAPLUS

CN 1H-Pyrrole-1-acetamide, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)

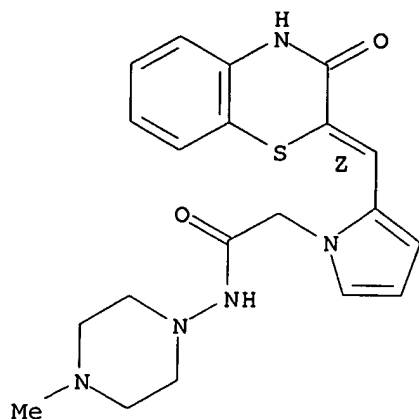
Double bond geometry as shown.



RN 312970-39-1 CAPLUS

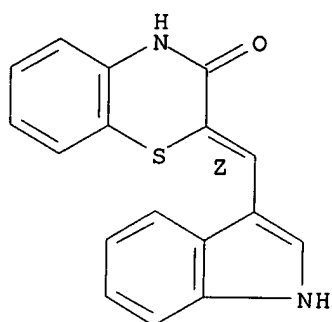
CN 1H-Pyrrole-1-acetamide, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

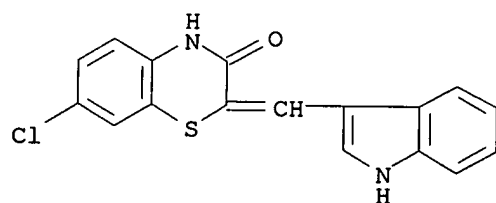


RN 312970-40-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-, (2Z)- (9CI)
 (CA INDEX NAME)

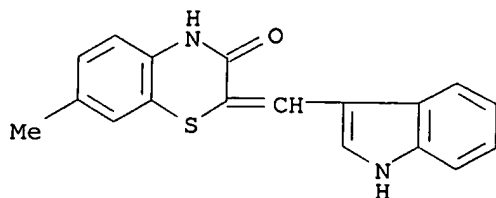
Double bond geometry as shown.



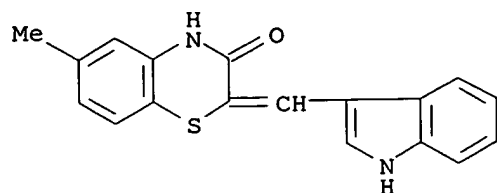
RN 312970-41-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-chloro-2-(1H-indol-3-ylmethylene)- (9CI)
 (CA INDEX NAME)



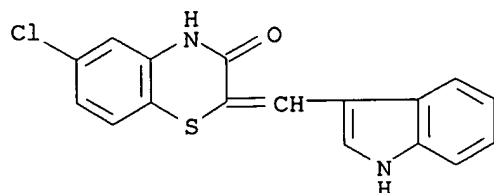
RN 312970-42-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-7-methyl- (9CI)
 (CA INDEX NAME)



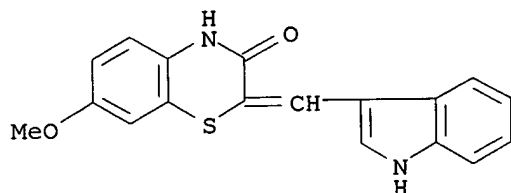
RN 312970-43-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-6-methyl- (9CI)
(CA INDEX NAME)



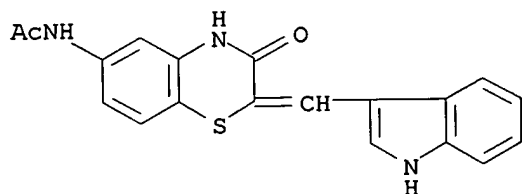
RN 312970-44-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(1H-indol-3-ylmethylene)- (9CI)
(CA INDEX NAME)



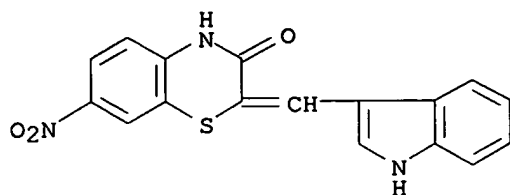
RN 312970-45-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-7-methoxy- (9CI)
(CA INDEX NAME)



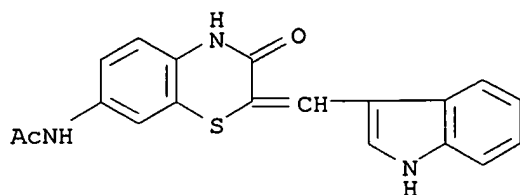
RN 312970-46-0 CAPLUS
CN Acetamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-6-yl]- (9CI) (CA INDEX NAME)



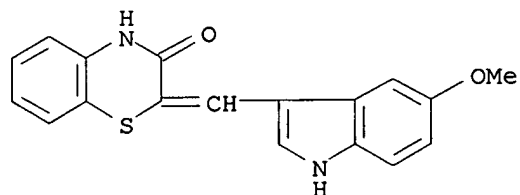
RN 312970-47-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-7-nitro- (9CI)
(CA INDEX NAME)



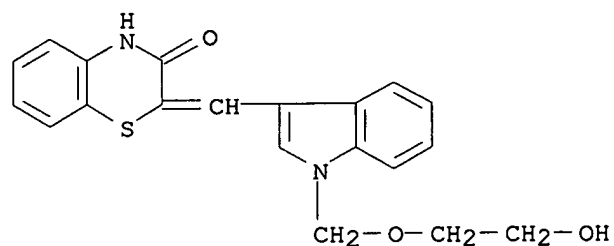
RN 312970-48-2 CAPLUS
 CN Acetamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



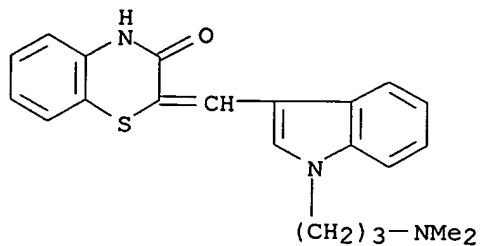
RN 312970-50-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methoxy-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



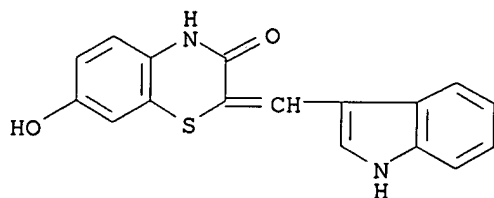
RN 312970-51-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[(2-hydroxyethoxy)methyl]-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



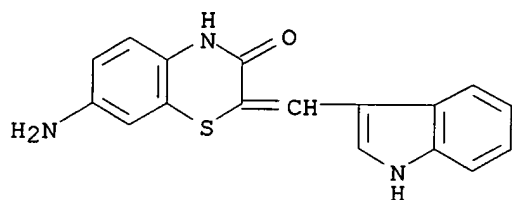
RN 312970-52-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



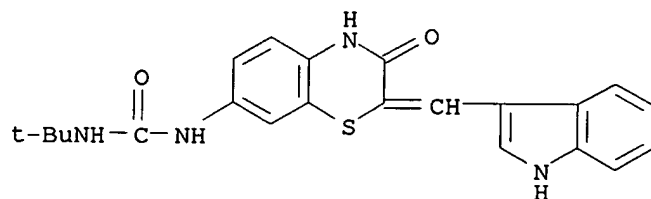
RN 312970-53-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-(1H-indol-3-ylmethylene)-
 (9CI)
 (CA INDEX NAME)



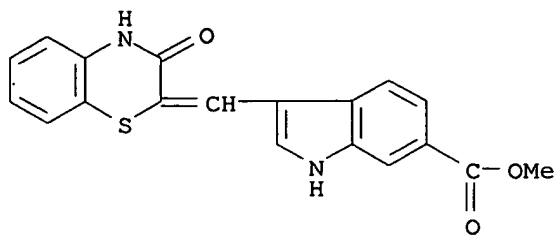
RN 312970-54-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-amino-2-(1H-indol-3-ylmethylene)- (9CI)
 (CA INDEX NAME)



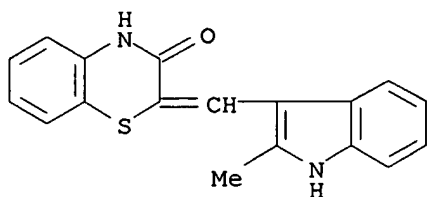
RN 312970-55-1 CAPLUS
 CN Urea,
 N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-
 7-yl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



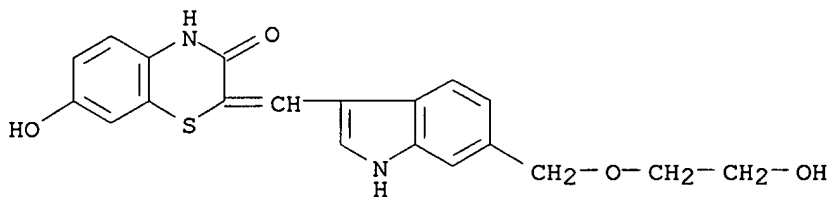
RN 312970-56-2 CAPLUS
 CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-
 ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)



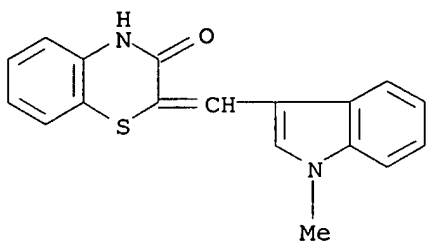
RN 312970-57-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methyl-1H-indol-3-yl)methylene]-
 (9CI) (CA INDEX NAME)



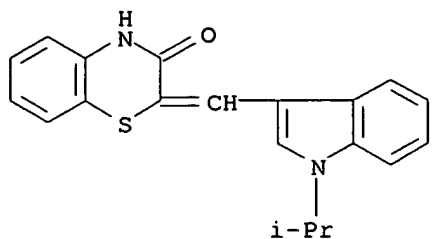
RN 312970-58-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-[[6-[(2-hydroxyethoxy)methyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312970-59-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-indol-3-yl)methylene]-
 (9CI) (CA INDEX NAME)

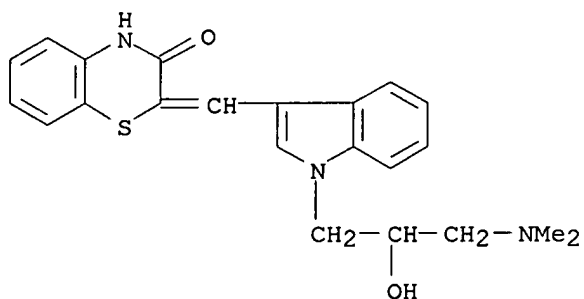


RN 312970-60-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(1-methylethyl)-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



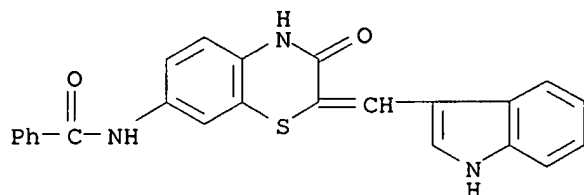
RN 312970-61-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)-2-hydroxypropyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



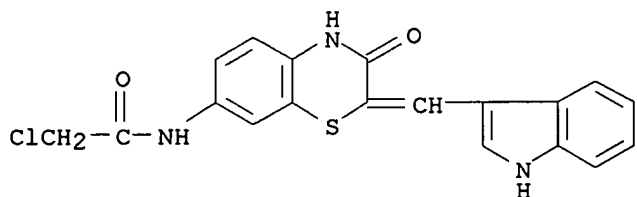
RN 312970-62-0 CAPLUS

CN Benzamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



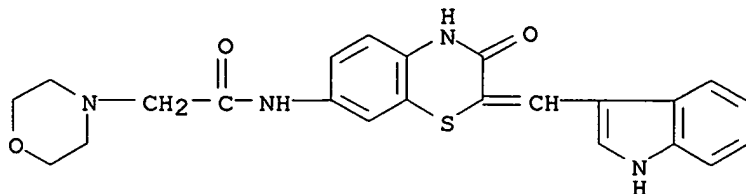
RN 312970-63-1 CAPLUS

CN Acetamide, 2-chloro-N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



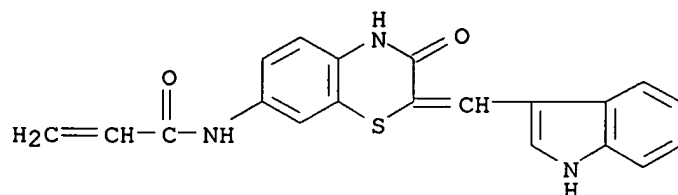
RN 312970-64-2 CAPLUS

CN 4-Morpholineacetamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



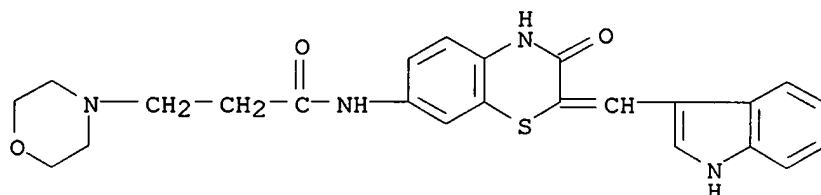
RN 312970-65-3 CAPLUS

CN 2-Propenamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



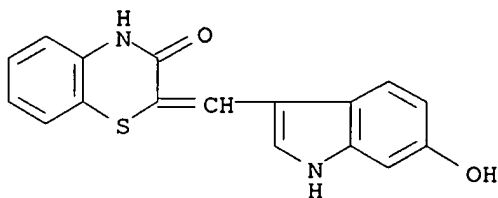
RN 312970-66-4 CAPLUS

CN 4-Morpholinepropanamide, N-[3,4-dihydro-2-(1H-indol-3-ylmethylene)-3-oxo-2H-1,4-benzothiazin-7-yl]- (9CI) (CA INDEX NAME)



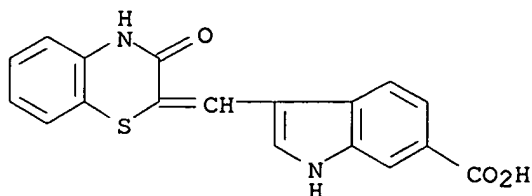
RN 312970-67-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-hydroxy-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)

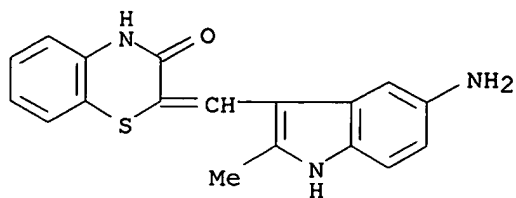


RN 312970-68-6 CAPLUS

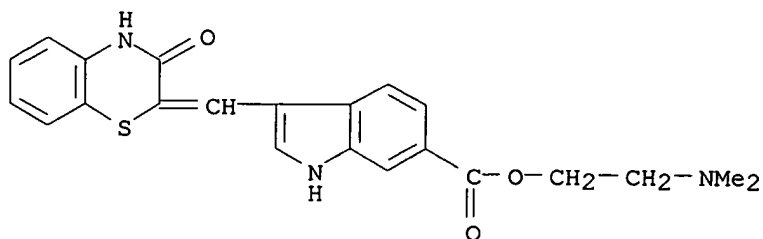
CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)



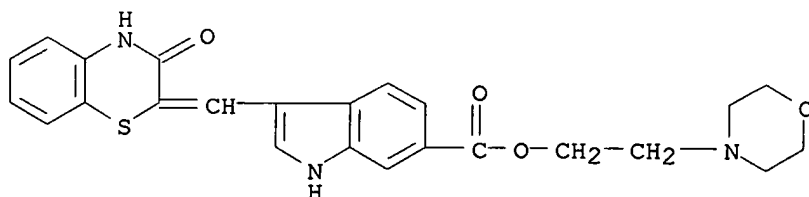
RN 312970-69-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-amino-2-methyl-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



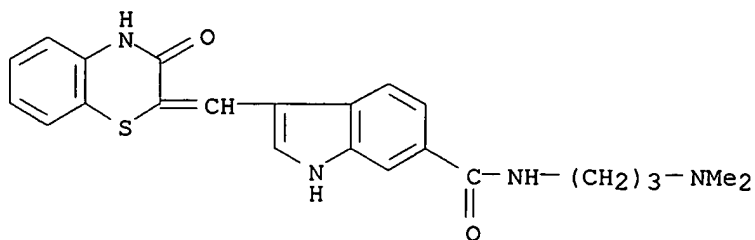
RN 312970-70-0 CAPLUS
 CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, 2-(dimethylamino)ethyl ester (9CI) (CA INDEX NAME)



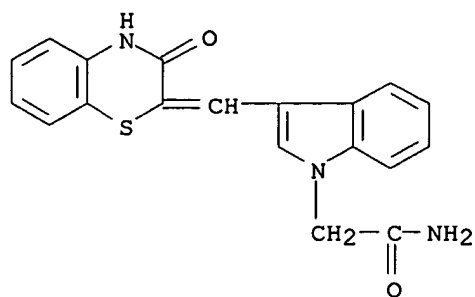
RN 312970-71-1 CAPLUS
 CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, 2-(4-morpholinyl)ethyl ester (9CI) (CA INDEX NAME)



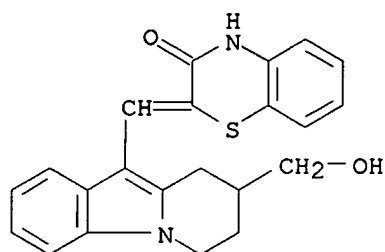
RN 312970-72-2 CAPLUS
 CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



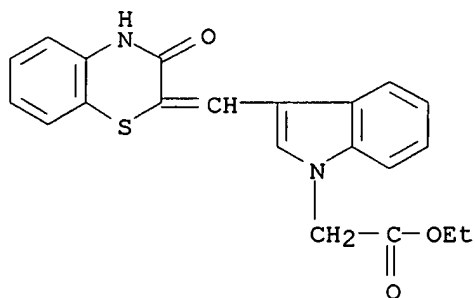
RN 312970-73-3 CAPLUS
 CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)



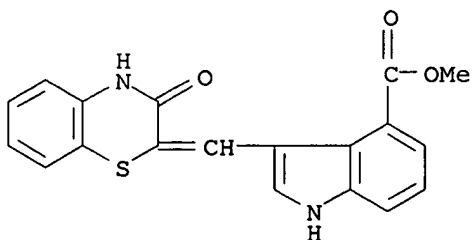
RN 312970-74-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6,7,8,9-tetrahydro-8-(hydroxymethyl)pyrido[1,2-a]indol-10-yl]methylene]- (9CI) (CA INDEX NAME)



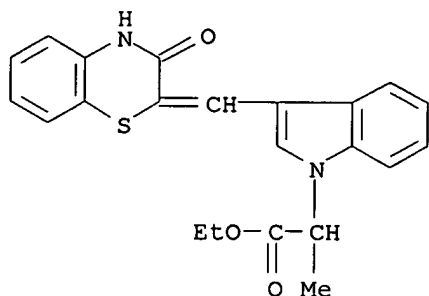
RN 312970-75-5 CAPLUS
 CN 1H-Indole-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



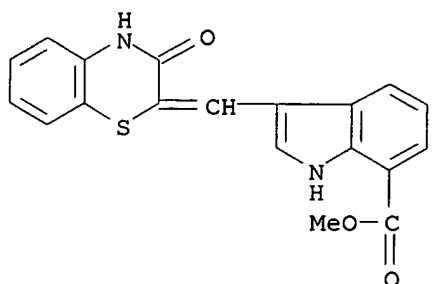
RN 312970-76-6 CAPLUS
 CN 1H-Indole-4-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)



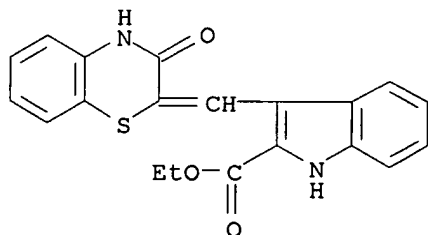
RN 312970-77-7 CAPLUS
 CN 1H-Indole-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-.alpha.-methyl-, ethyl ester (9CI) (CA INDEX NAME)



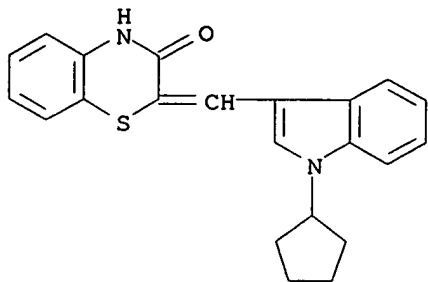
RN 312970-78-8 CAPLUS
 CN 1H-Indole-7-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)



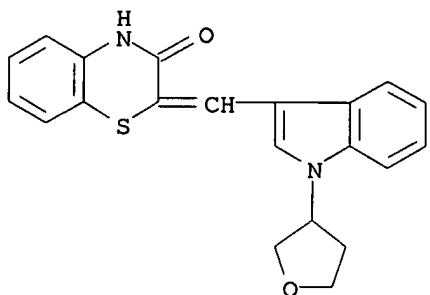
RN 312970-79-9 CAPLUS
 CN 1H-Indole-2-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



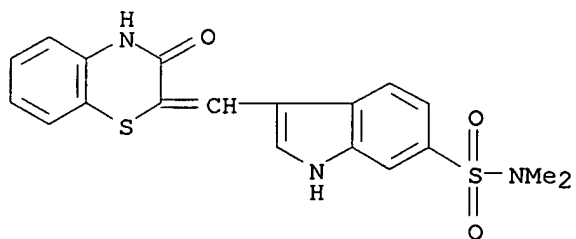
RN 312970-80-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[(1-cyclopentyl-1H-indol-3-yl)methylene]-
 (9CI) (CA INDEX NAME)



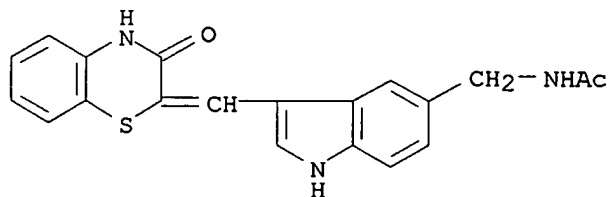
RN 312970-81-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(tetrahydro-3-furanyl)-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



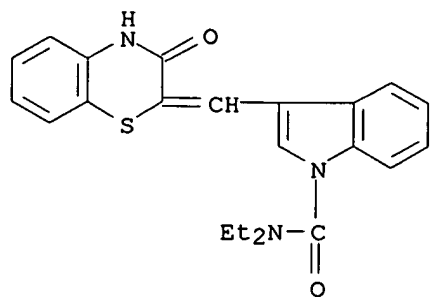
RN 312970-82-4 CAPLUS
 CN 1H-Indole-6-sulfonamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 312970-83-5 CAPLUS
 CN Acetamide,
 N-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-5-yl]methyl]- (9CI) (CA INDEX NAME)

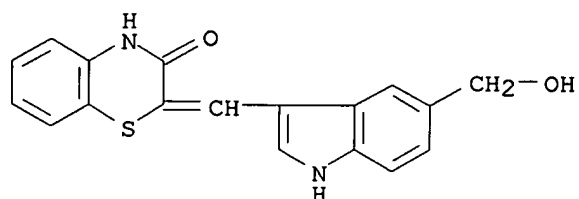


RN 312970-84-6 CAPLUS
 CN 1H-Indole-1-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



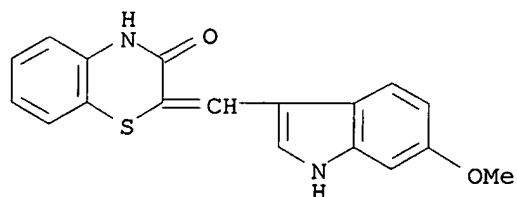
RN 312970-85-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-(hydroxymethyl)-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312970-86-8 CAPLUS

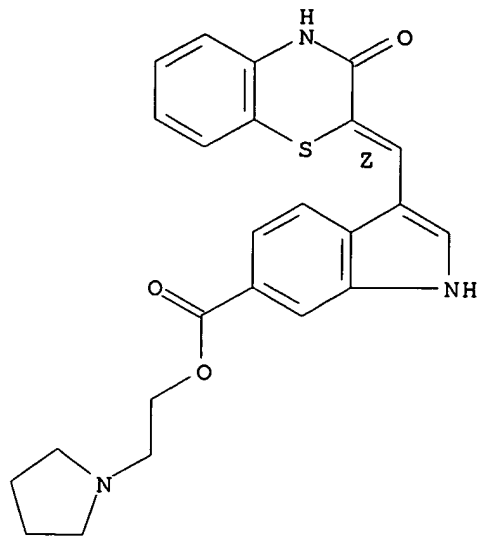
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-methoxy-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



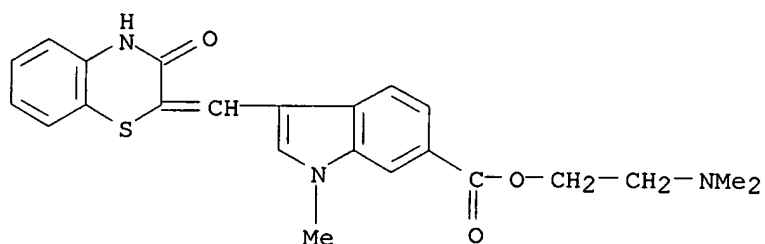
RN 312970-87-9 CAPLUS

CN 1H-Indole-6-carboxylic acid, 3-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, 2-(1-pyrrolidinyl)ethyl ester (9CI) (CA INDEX NAME)

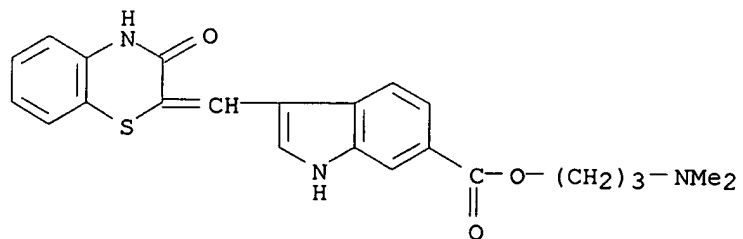
Double bond geometry as shown.



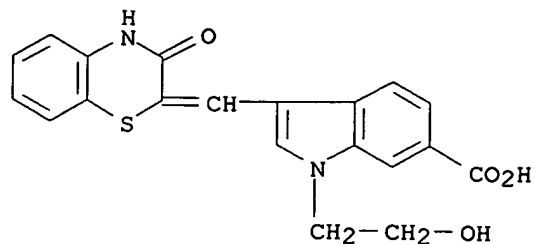
RN 312970-88-0 CAPLUS
 CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1-methyl-, 2-(dimethylamino)ethyl ester (9CI) (CA INDEX NAME)



RN 312970-89-1 CAPLUS
 CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, 3-(dimethylamino)propyl ester (9CI) (CA INDEX NAME)



RN 312970-90-4 CAPLUS
 CN 1H-Indole-6-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1-(2-hydroxyethyl)-, monosodium salt (9CI) (CA INDEX NAME)

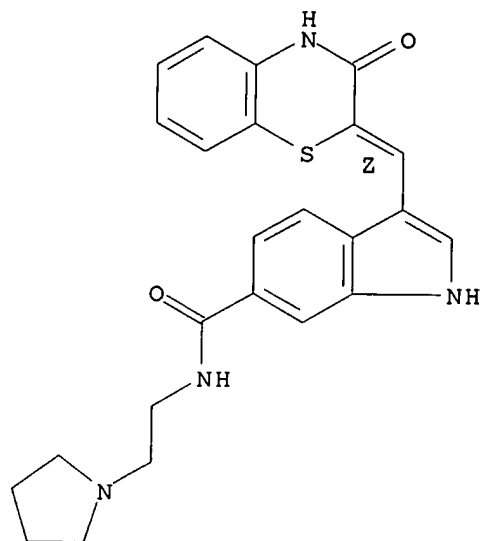


● Na

RN 312970-91-5 CAPLUS

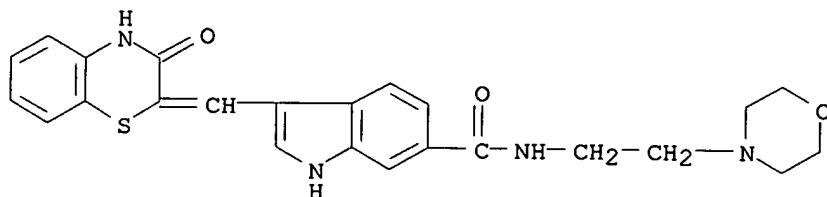
CN 1H-Indole-6-carboxamide, 3-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-pyrrolidiny)ethyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



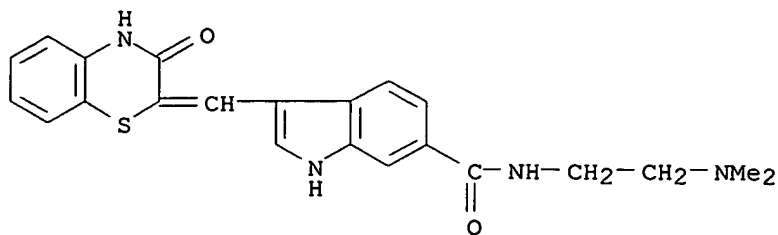
RN 312970-92-6 CAPLUS

CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



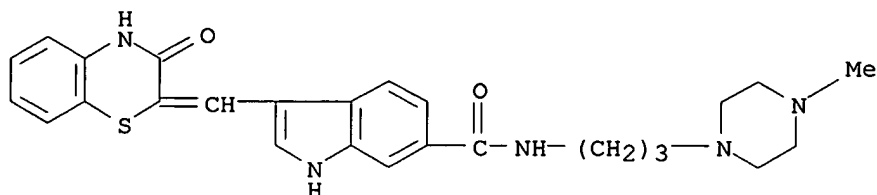
RN 312970-93-7 CAPLUS

CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)



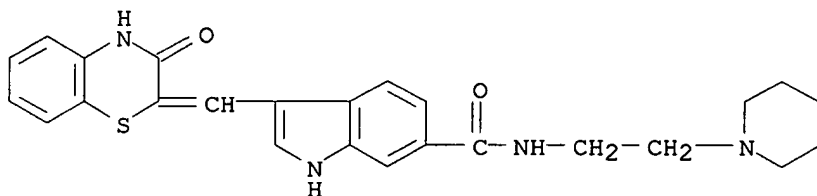
RN 312970-94-8 CAPLUS

CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)



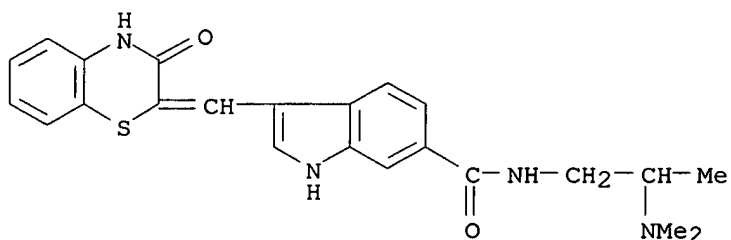
RN 312970-95-9 CAPLUS

CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-piperidinyl)ethyl]- (9CI) (CA INDEX NAME)



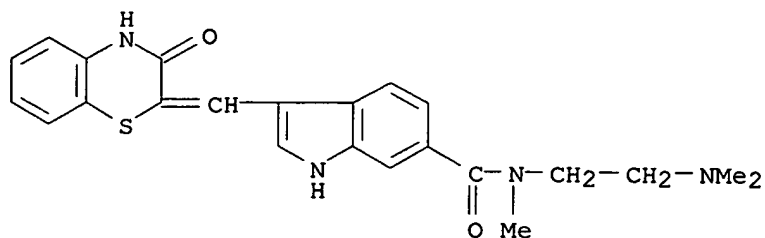
RN 312970-96-0 CAPLUS

CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



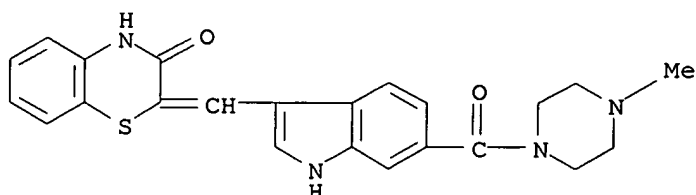
RN 312970-97-1 CAPLUS

CN 1H-Indole-6-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]-N-methyl- (9CI) (CA INDEX NAME)



RN 312970-98-2 CAPLUS

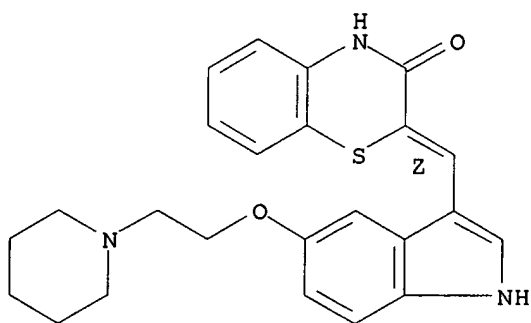
CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-6-yl]carbonyl]-4-methyl- (9CI) (CA INDEX NAME)



RN 312970-99-3 CAPLUS

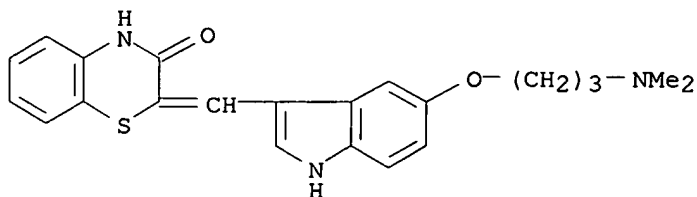
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[2-(1-piperidinyl)ethoxy]-1H-indol-3-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



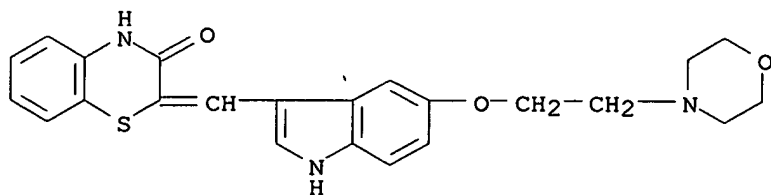
RN 312971-00-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[3-(dimethylamino)propoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



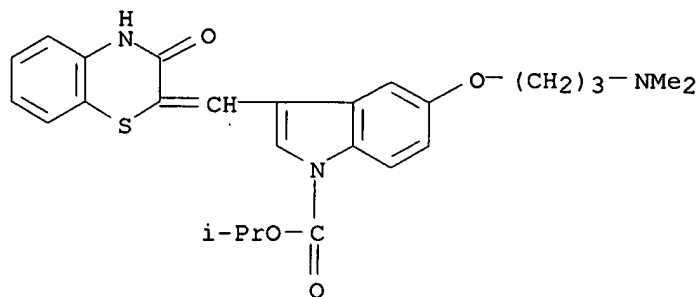
RN 312971-01-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



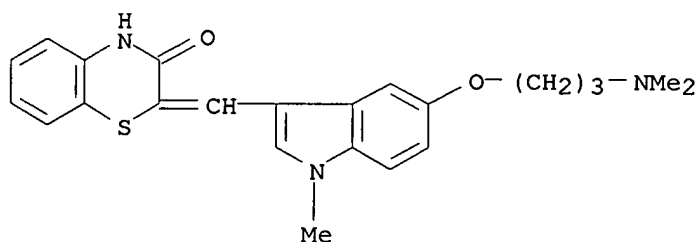
RN 312971-02-1 CAPLUS

CN 1H-Indole-1-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-[3-(dimethylamino)propoxy]-, 1-methylethyl ester (9CI)
(CA INDEX NAME)



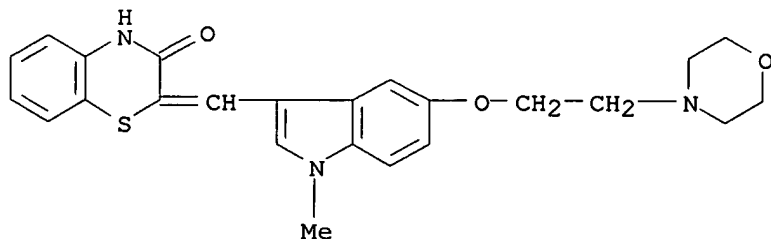
RN 312971-03-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-[3-(dimethylamino)propoxy]-1-methyl-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



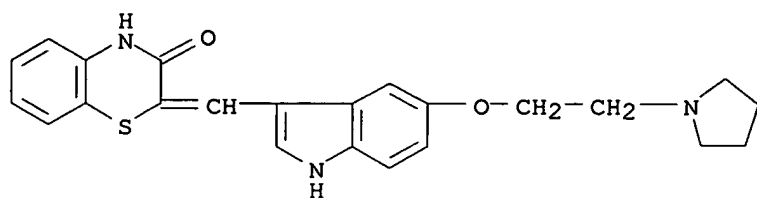
RN 312971-04-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-methyl-5-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)

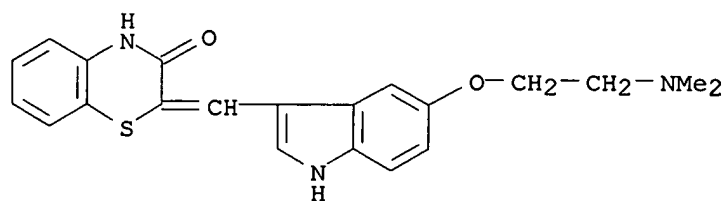


RN 312971-05-4 CAPLUS

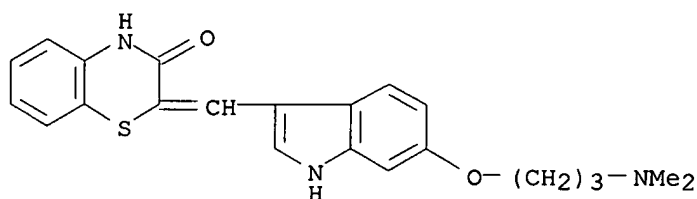
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[[5-[2-(1-pyrrolidinyl)ethoxy]-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



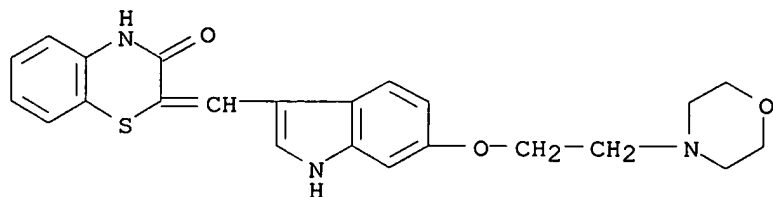
RN 312971-06-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[[5-[2-(dimethylamino)ethoxy]-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



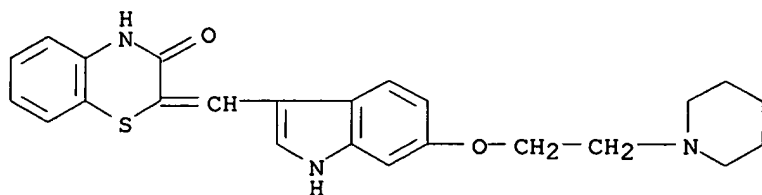
RN 312971-07-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[[6-[3-(dimethylamino)propoxy]-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



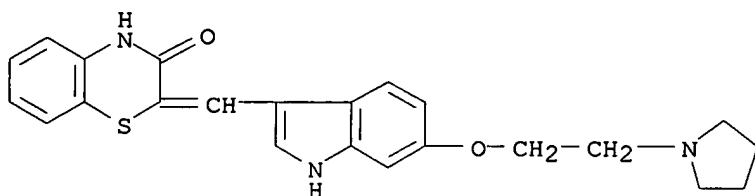
RN 312971-08-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[[6-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



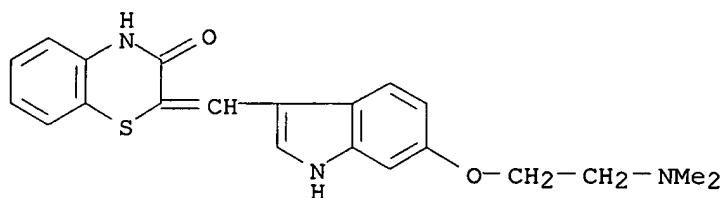
RN 312971-09-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[[6-[2-(1-piperidinyloxy)-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)



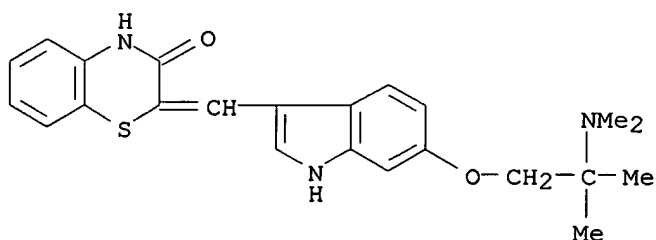
RN 312971-10-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[6-[2-(1-pyrrolidinyl)ethoxy]-1H-indol-3-
 yl]methylene]- (9CI) (CA INDEX NAME)



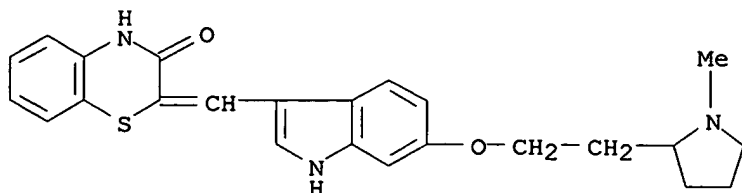
RN 312971-11-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[6-[2-(dimethylamino)ethoxy]-1H-indol-3-
 yl]methylene]- (9CI) (CA INDEX NAME)



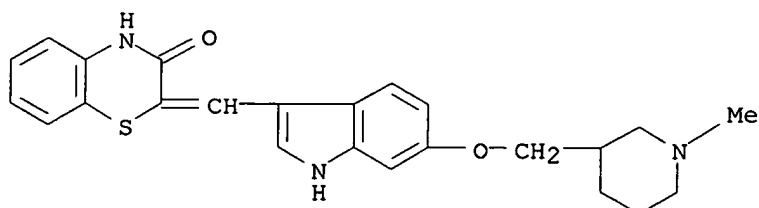
RN 312971-12-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(dimethylamino)-2-methylpropoxy]-
 1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



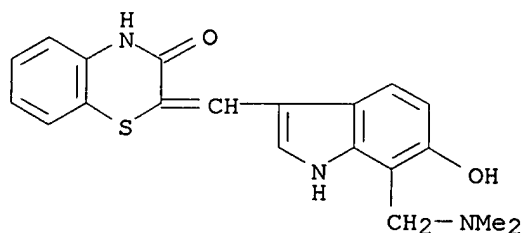
RN 312971-13-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[2-(1-methyl-2-pyrrolidinyl)ethoxy]-
 1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



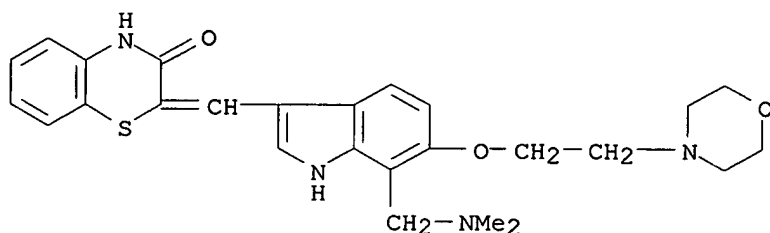
RN 312971-14-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[6-[(1-methyl-3-piperidinyl)methoxy]-1H-
 indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



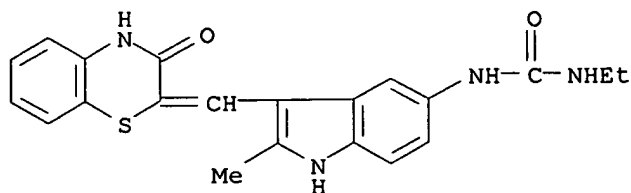
RN 312971-15-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[7-[(dimethylamino)methyl]-6-hydroxy-1H-
 indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



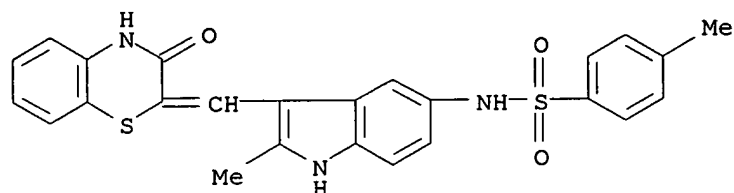
RN 312971-16-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[7-[(dimethylamino)methyl]-6-[2-(4-morpholinyl)ethoxy]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



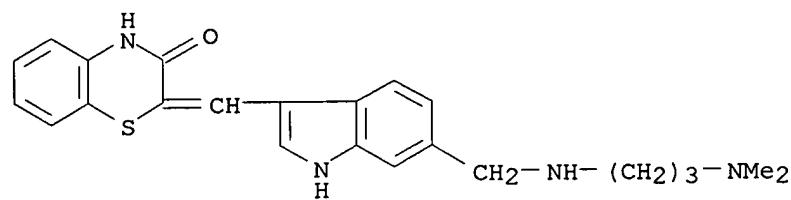
RN 312971-17-8 CAPLUS
 CN Urea, N-[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2-methyl-1H-indol-5-yl]-N'-ethyl- (9CI) (CA INDEX NAME)



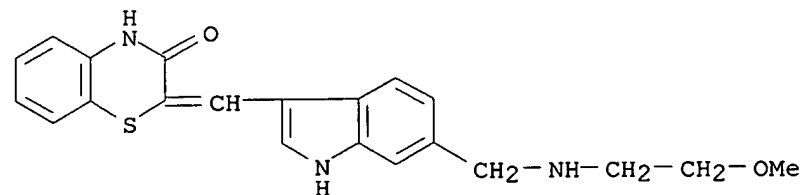
RN 312971-18-9 CAPLUS
 CN Benzenesulfonamide, N-[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2-methyl-1H-indol-5-yl]-4-methyl- (9CI) (CA INDEX NAME)



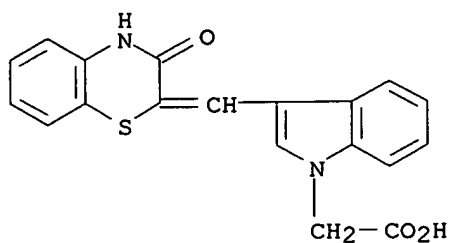
RN 312971-19-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[[[3-(dimethylamino)propyl]amino]methyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



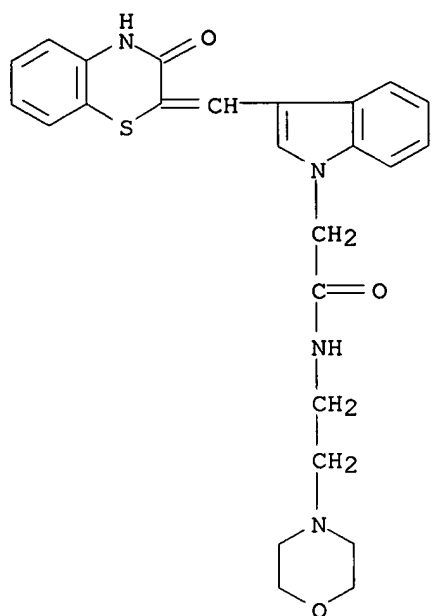
RN 312971-20-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-[[[2-methoxyethyl]amino]methyl]-1H-indol-3-yl]methylene]- (9CI) (CA INDEX NAME)



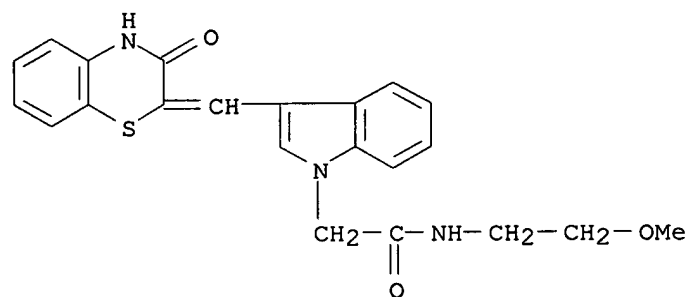
RN 312971-21-4 CAPLUS
 CN 1H-Indole-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)



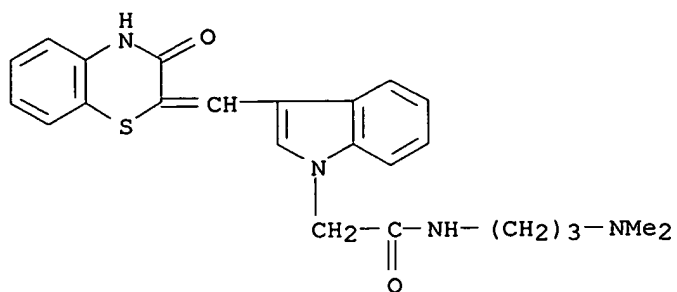
RN 312971-22-5 CAPLUS
 CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



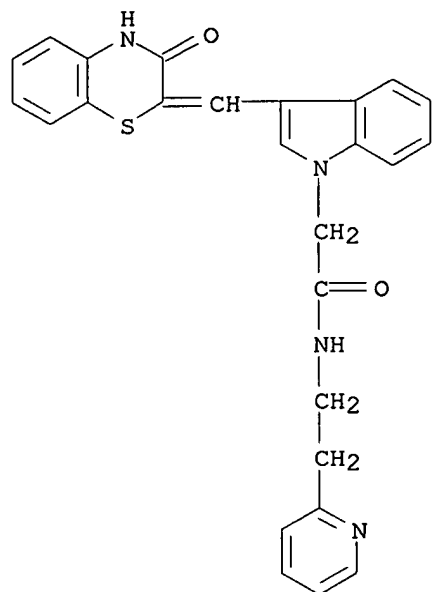
RN 312971-23-6 CAPLUS
 CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-(2-methoxyethyl)- (9CI) (CA INDEX NAME)



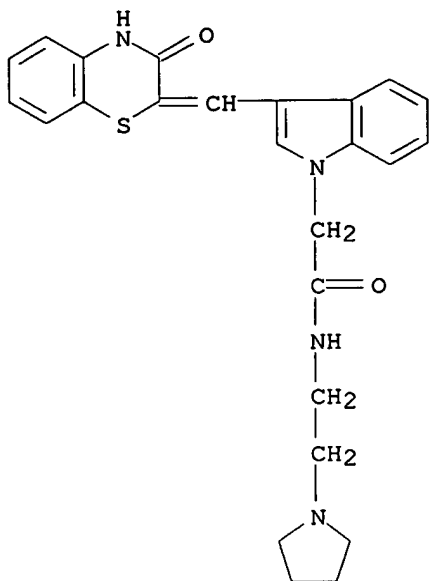
RN 312971-24-7 CAPLUS
 CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



RN 312971-25-8 CAPLUS
 CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(2-pyridinyl)ethyl]- (9CI) (CA INDEX NAME)

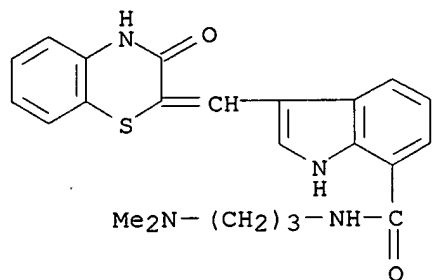


RN 312971-26-9 CAPLUS
 CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)



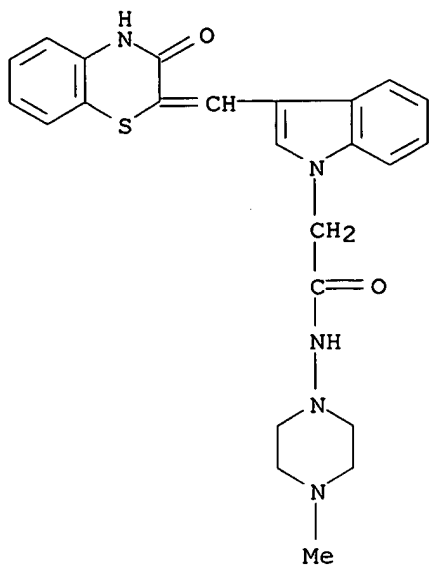
RN 312971-27-0 CAPLUS

CN 1H-Indole-7-carboxamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



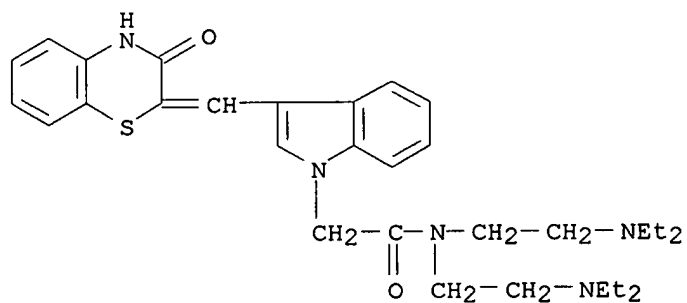
RN 312971-28-1 CAPLUS

CN 1H-Indole-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



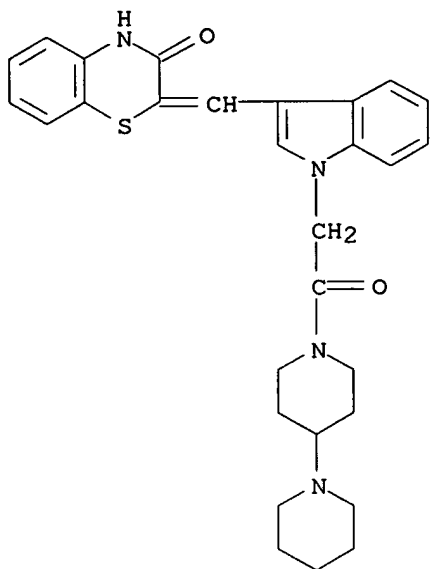
RN 312971-29-2 CAPLUS

CN 1H-Indole-1-acetamide, N,N-bis[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

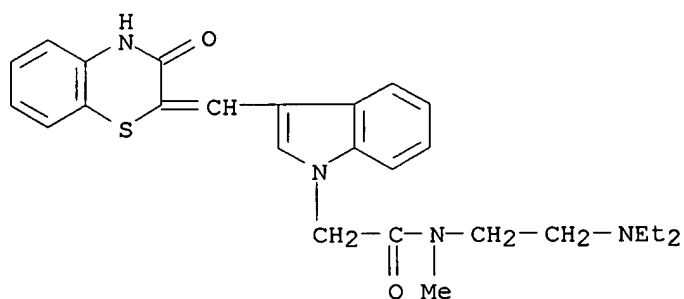


RN 312971-30-5 CAPLUS

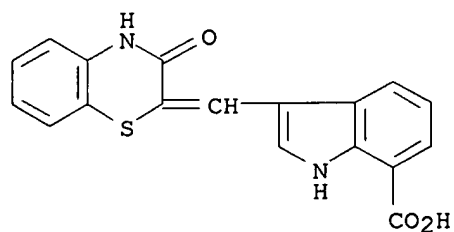
CN 1,4'-Bipiperidine, 1'-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-1-yl]acetyl]- (9CI) (CA INDEX NAME)



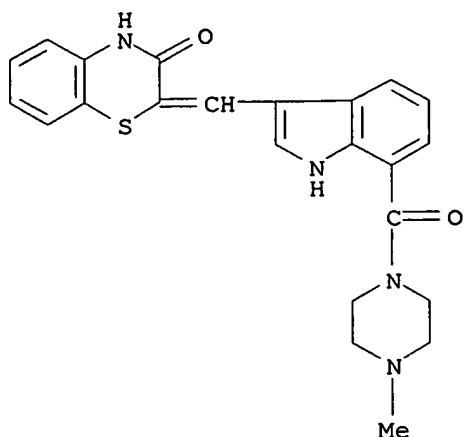
RN 312971-31-6 CAPLUS
 CN 1H-Indole-1-acetamide,
 N-[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-
 1,4-benzothiazin-2-ylidene)methyl]-N-methyl- (9CI) (CA INDEX NAME)



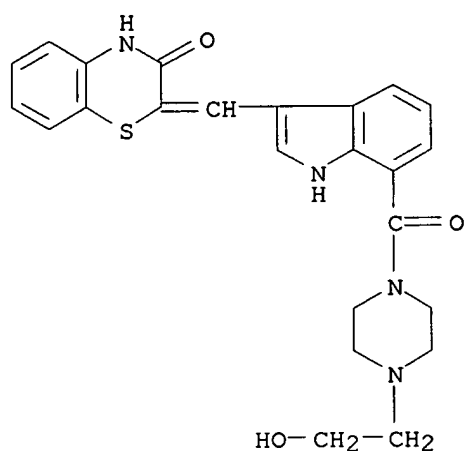
RN 312971-32-7 CAPLUS
 CN 1H-Indole-7-carboxylic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-
 ylidene)methyl]- (9CI) (CA INDEX NAME)



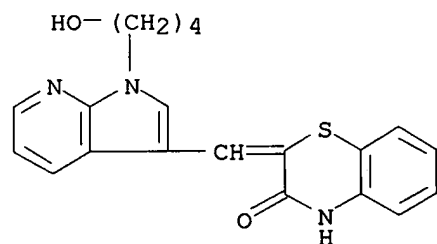
RN 312971-33-8 CAPLUS
 CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-
 ylidene)methyl]-1H-indol-7-yl]carbonyl]-4-methyl- (9CI) (CA INDEX NAME)



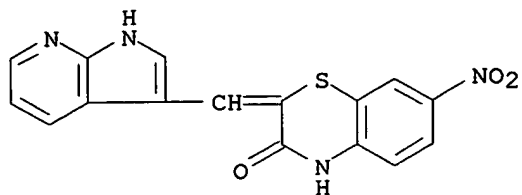
RN 312971-34-9 CAPLUS
 CN 1-Piperazineethanol, 4-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-indol-7-yl]carbonyl]- (9CI) (CA INDEX NAME)



RN 312971-35-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(4-hydroxybutyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

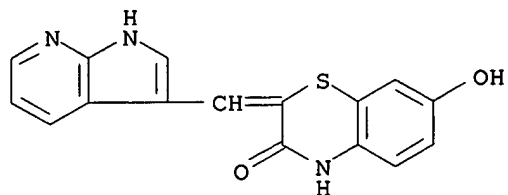


RN 312971-36-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-nitro-2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)



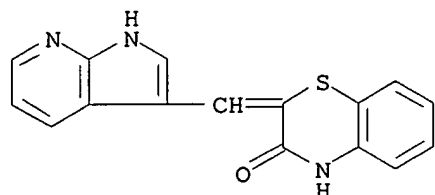
RN 312971-37-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)



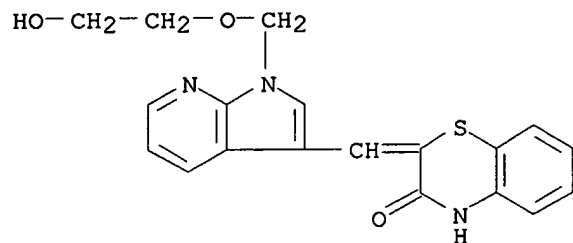
RN 312971-38-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)



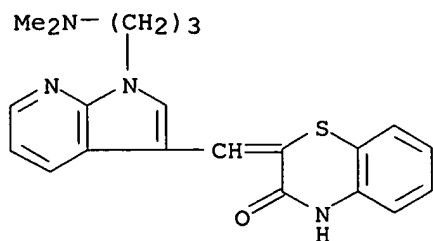
RN 312971-39-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[(2-hydroxyethoxy)methyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)



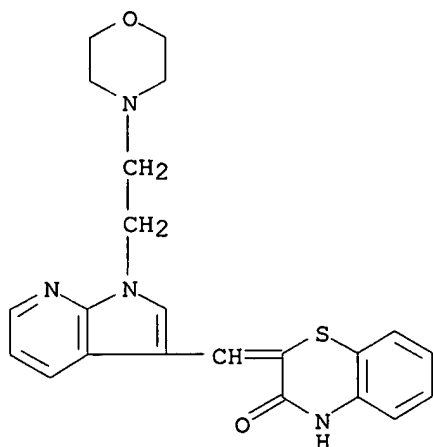
RN 312971-40-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)



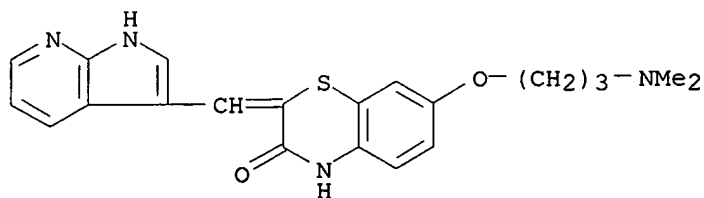
RN 312971-41-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(4-morpholinyl)ethyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)



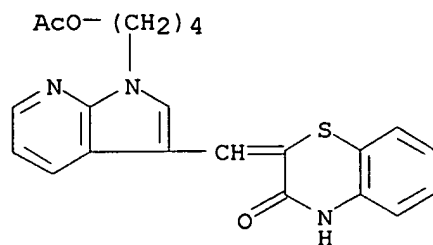
RN 312971-42-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 7-[3-(dimethylamino)propoxy]-2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)

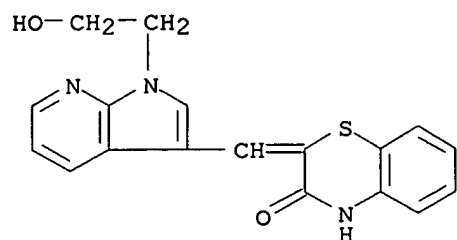


RN 312971-43-0 CAPLUS

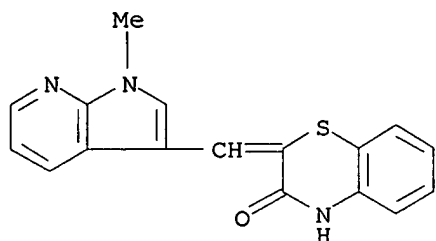
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[4-(acetyloxy)butyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)



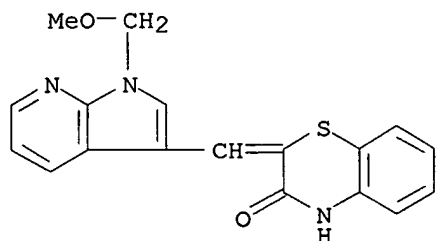
RN 312971-44-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(2-hydroxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)



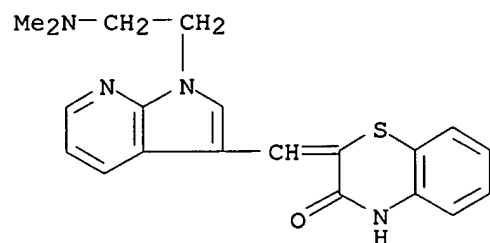
RN 312971-45-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-pyrrolo[2,3-b]pyridin-3-yl)methylene]- (9CI) (CA INDEX NAME)



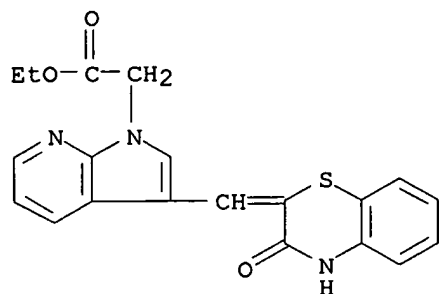
RN 312971-46-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(methoxymethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)



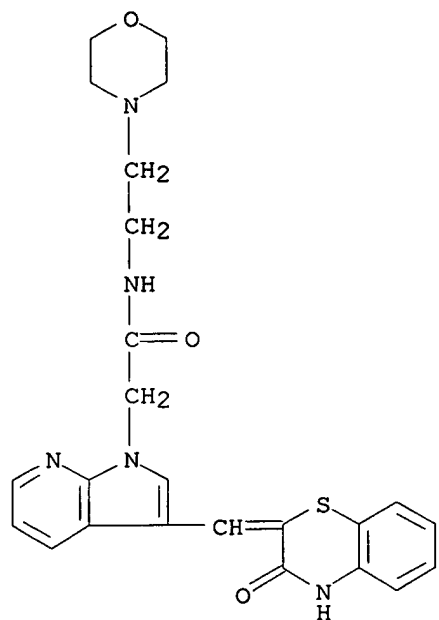
RN 312971-47-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(dimethylamino)ethyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)



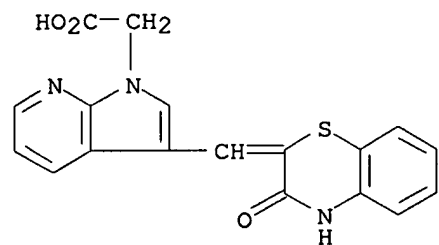
RN 312971-48-5 CAPLUS
 CN 1H-Pyrrolo[2,3-b]pyridine-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



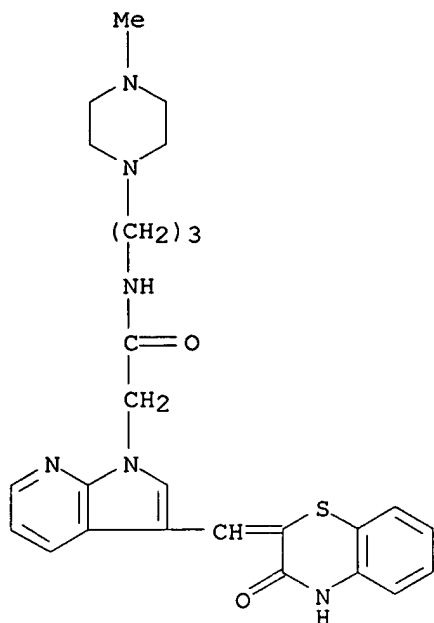
RN 312971-49-6 CAPLUS
 CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



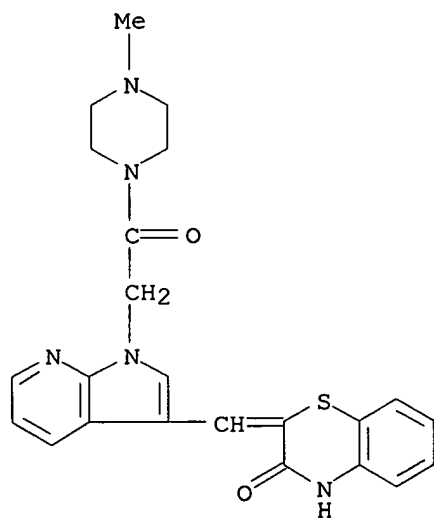
RN 312971-50-9 CAPLUS
 CN 1H-Pyrrolo[2,3-b]pyridine-1-acetic acid, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)



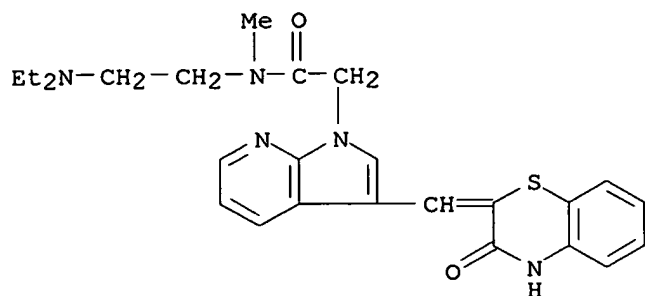
RN 312971-51-0 CAPLUS
 CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(4-methyl-1-piperazinyl)propyl]-
 (9CI)
 (CA INDEX NAME)



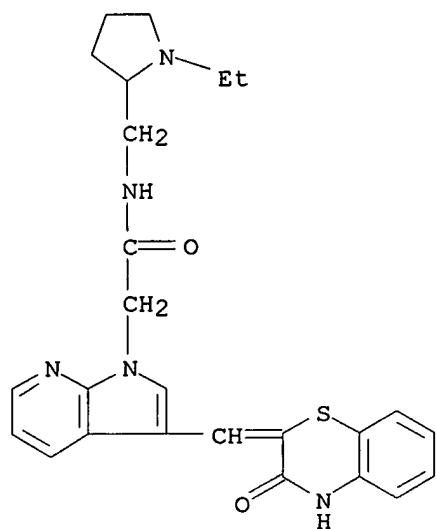
RN 312971-52-1 CAPLUS
 CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]-4-methyl- (9CI)
 (CA INDEX NAME)



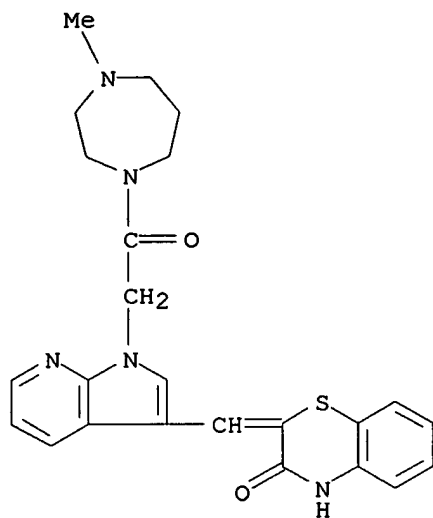
RN 312971-53-2 CAPLUS
 CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, N-[2-(diethylamino)ethyl]-3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-methyl- (9CI) (CA INDEX NAME)



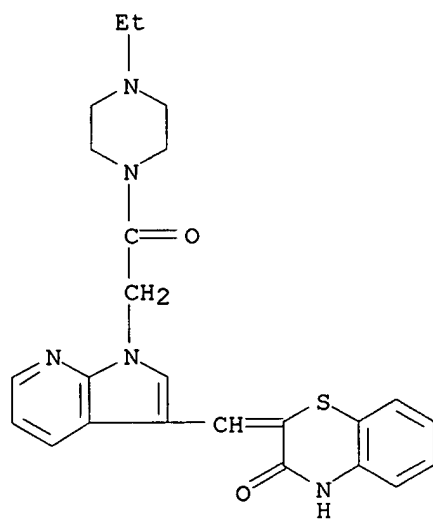
RN 312971-54-3 CAPLUS
 CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, 3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[(1-ethyl-2-pyrrolidinyl)methyl]- (9CI)
 (CA INDEX NAME)



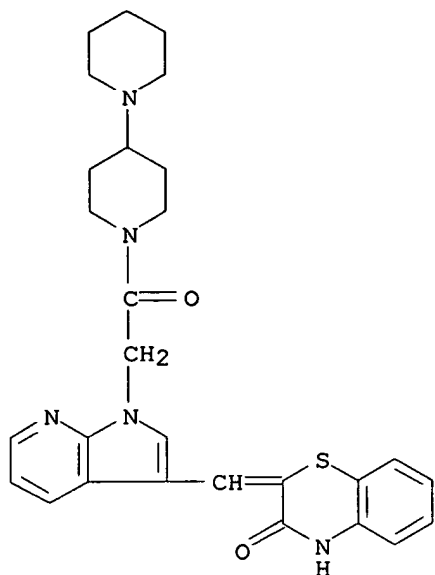
RN 312971-55-4 CAPLUS
 CN 1H-1,4-Diazepine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]hexahydro-4-methyl- (9CI)
 (CA INDEX NAME)



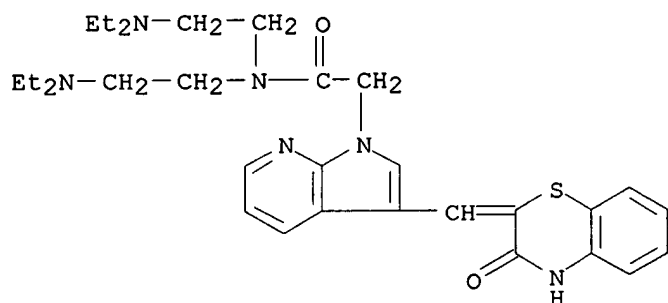
RN 312971-56-5 CAPLUS
 CN Piperazine, 1-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]-4-ethyl- (9CI) (CA INDEX NAME)



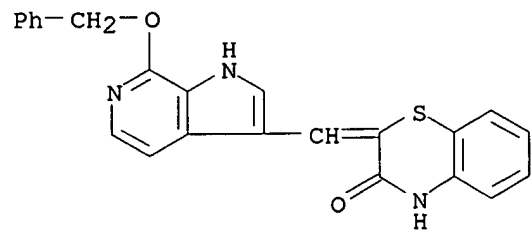
RN 312971-57-6 CAPLUS
 CN 1,4'-Bipiperidine, 1'-[[3-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-1H-pyrrolo[2,3-b]pyridin-1-yl]acetyl]- (9CI) (CA INDEX NAME)



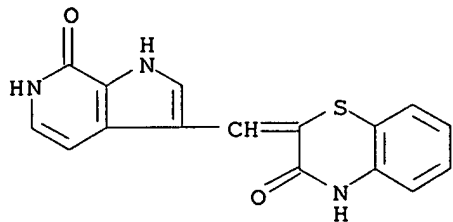
RN 312971-58-7 CAPLUS
 CN 1H-Pyrrolo[2,3-b]pyridine-1-acetamide, N,N-bis[2-(diethylamino)ethyl]-3-
 [(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA
 INDEX NAME)



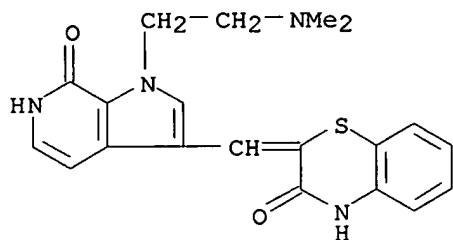
RN 312971-59-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[7-(phenylmethoxy)-1H-pyrrolo[2,3-
 c]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)



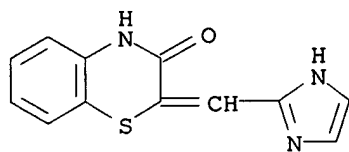
RN 312971-60-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6,7-dihydro-7-oxo-1H-pyrrolo[2,3-
 c]pyridin-3-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312971-61-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(dimethylamino)ethyl]-6,7-dihydro-7-oxo-1H-pyrrolo[2,3-c]pyridin-3-yl]methylene]- (9CI) (CA INDEX NAME)

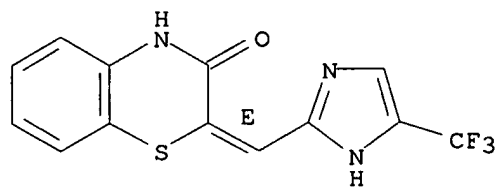


RN 312971-62-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-imidazol-2-ylmethylene)- (9CI) (CA INDEX NAME)



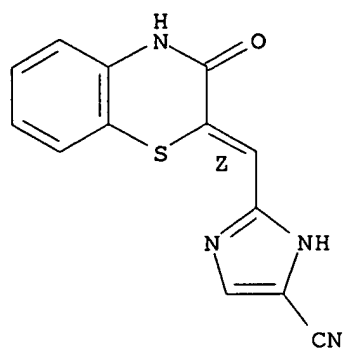
RN 312971-63-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(trifluoromethyl)-1H-imidazol-2-yl]methylene]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



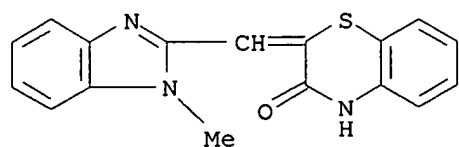
RN 312971-64-5 CAPLUS
 CN 1H-Imidazole-4-carbonitrile, 2-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



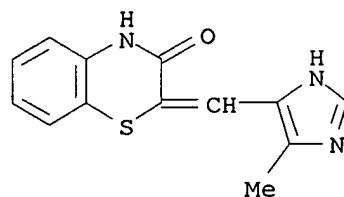
RN 312971-65-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-benzimidazol-2-yl)methylene]- (9CI) (CA INDEX NAME)



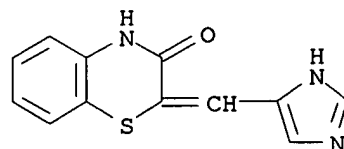
RN 312971-66-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



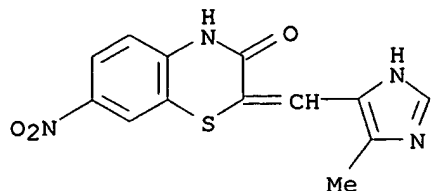
RN 312971-67-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-imidazol-4-ylmethylene)- (9CI) (CA INDEX NAME)

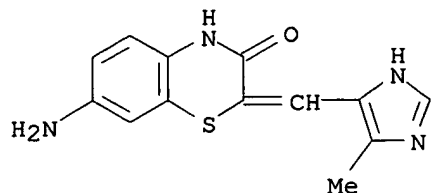


RN 312971-68-9 CAPLUS

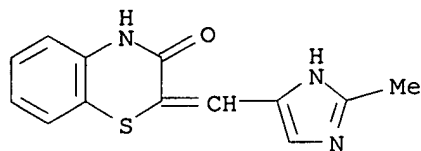
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-imidazol-4-yl)methylene]-7-nitro- (9CI) (CA INDEX NAME)



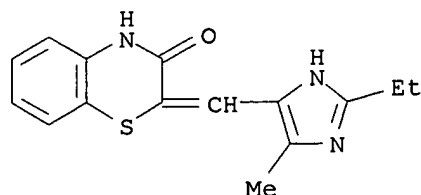
RN 312971-69-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-amino-2-[(5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



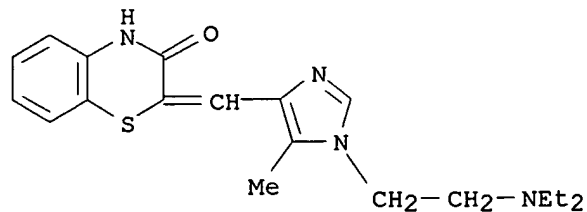
RN 312971-70-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312971-71-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-ethyl-5-methyl-1H-imidazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

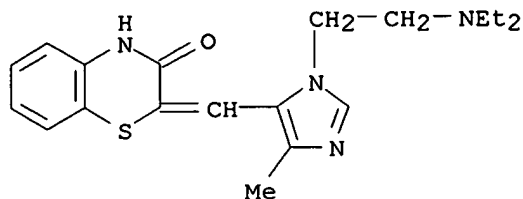


RN 312971-72-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(diethylamino)ethyl]-5-methyl-1H-imidazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



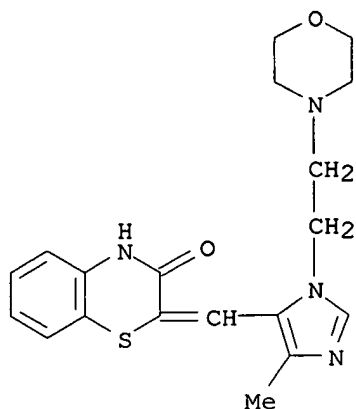
RN 312971-73-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(diethylamino)ethyl]-4-methyl-1H-imidazol-5-yl]methylene]- (9CI) (CA INDEX NAME)



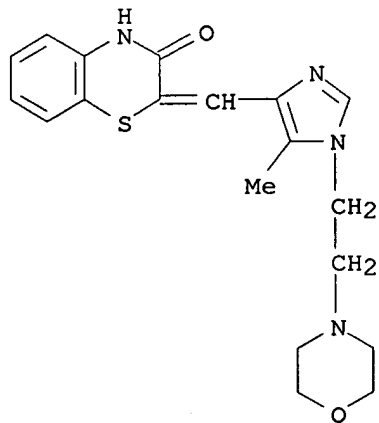
RN 312971-74-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-methyl-1-[2-(4-morpholinyl)ethyl]-1H-imidazol-5-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312971-75-8 CAPLUS

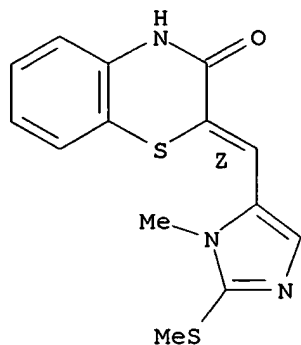
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-methyl-1-[2-(4-morpholinyl)ethyl]-1H-imidazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



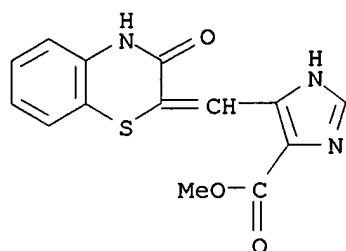
RN 312971-76-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-methyl-2-(methylthio)-1H-imidazol-5-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

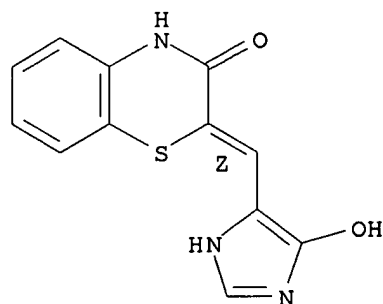


RN 312971-77-0 CAPLUS
CN 1H-Imidazole-4-carboxylic acid,
5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-
2-ylidene)methyl]-, methyl ester (9CI) (CA INDEX NAME)

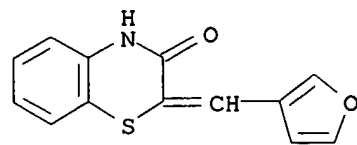


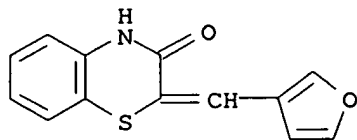
RN 312971-78-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[(5-hydroxy-1H-imidazol-4-yl)methylene]-,
(2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

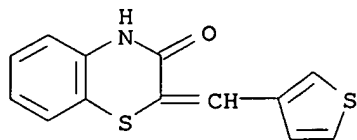


RN 312971-79-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3-furanylmethylene)- (9CI) (CA INDEX
NAME)

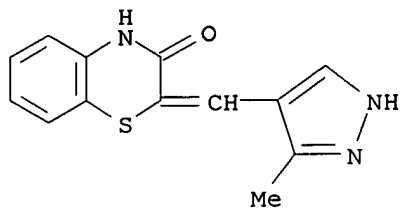




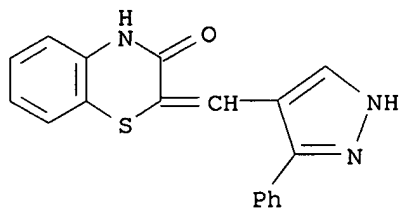
RN 312971-80-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3-thienylmethylene)- (9CI) (CA INDEX NAME)



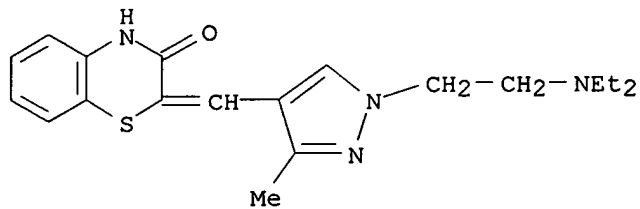
RN 312971-81-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-methyl-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



RN 312971-82-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-phenyl-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)

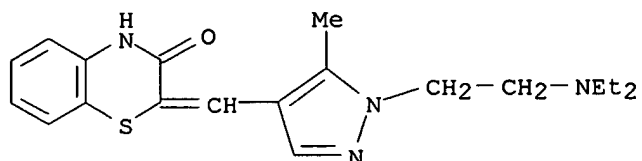


RN 312971-83-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(diethylamino)ethyl]-3-methyl-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



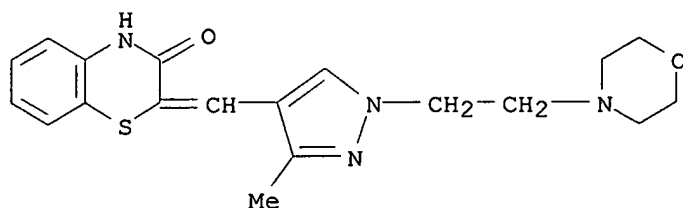
RN 312971-84-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(diethylamino)ethyl]-5-methyl-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



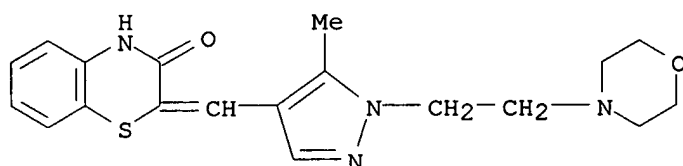
RN 312971-85-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-methyl-1-[2-(4-morpholinyl)ethyl]-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



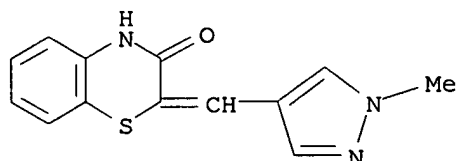
RN 312971-86-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[5-methyl-1-[2-(4-morpholinyl)ethyl]-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



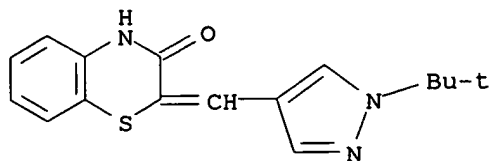
RN 312971-87-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1-methyl-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



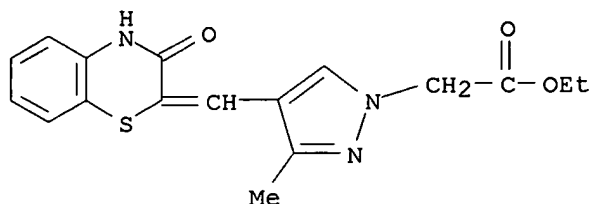
RN 312971-88-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-(1,1-dimethylethyl)-1H-pyrazol-4-yl]methylene]- (9CI) (CA INDEX NAME)



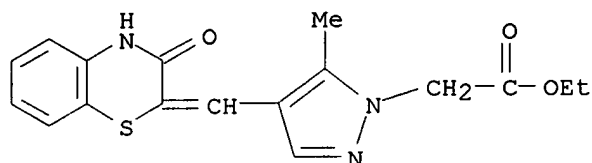
RN 312971-89-4 CAPLUS

CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-, ethyl ester (9CI) (CA INDEX NAME)



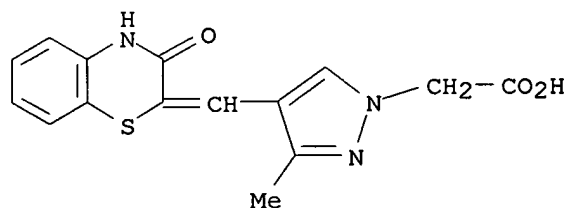
RN 312971-90-7 CAPLUS

CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-, ethyl ester (9CI) (CA INDEX NAME)



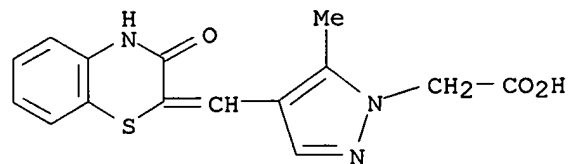
RN 312971-91-8 CAPLUS

CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl- (9CI) (CA INDEX NAME)

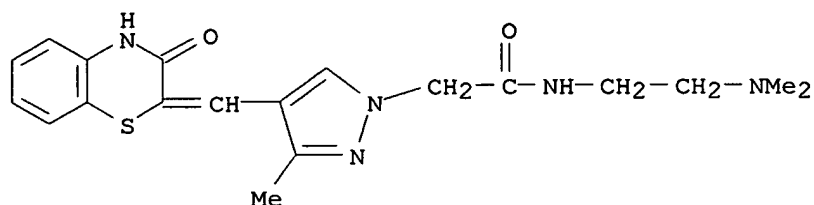


RN 312971-92-9 CAPLUS

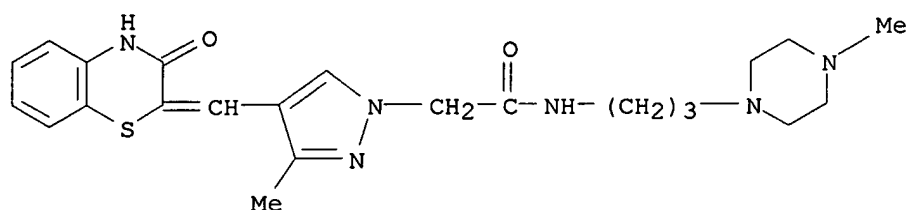
CN 1H-Pyrazole-1-acetic acid, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl- (9CI) (CA INDEX NAME)



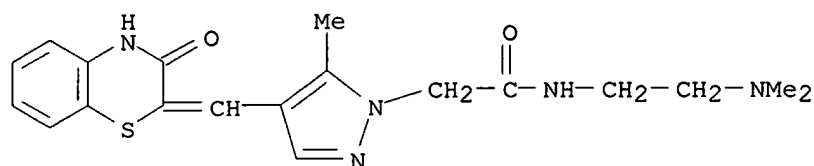
RN 312971-93-0 CAPLUS
 CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]-3-methyl- (9CI) (CA INDEX NAME)



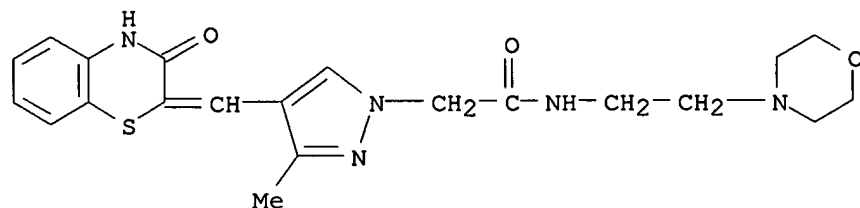
RN 312971-94-1 CAPLUS
 CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-N-[3-(4-methyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)



RN 312971-95-2 CAPLUS
 CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(dimethylamino)ethyl]-5-methyl- (9CI) (CA INDEX NAME)

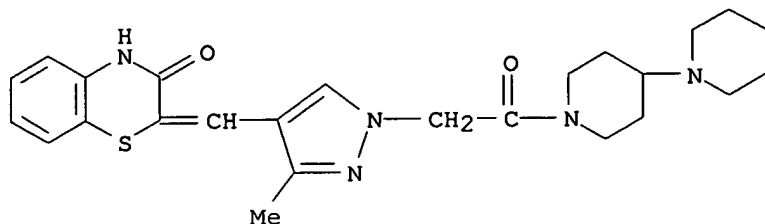


RN 312971-96-3 CAPLUS
 CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



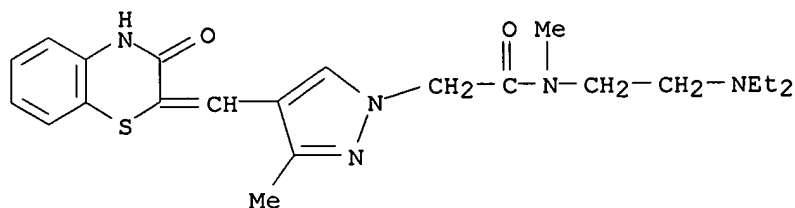
RN 312971-97-4 CAPLUS
 CN 1,4'-Bipiperidine, 1'-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-

ylidene)methyl]-3-methyl-1H-pyrazol-1-yl]acetyl]- (9CI) (CA INDEX NAME)



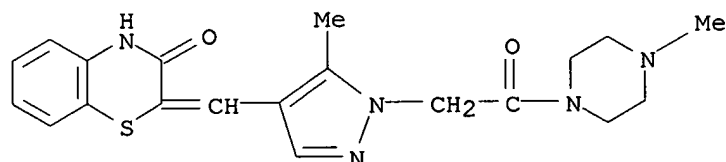
RN 312971-98-5 CAPLUS

CN 1H-Pyrazole-1-acetamide, N-[2-(diethylamino)ethyl]-4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N,3-dimethyl- (9CI) (CA INDEX NAME)



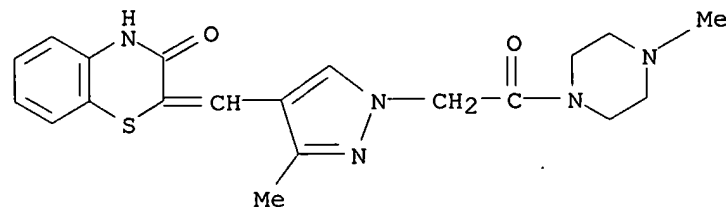
RN 312971-99-6 CAPLUS

CN Piperazine, 1-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-1H-pyrazol-1-yl]acetyl]-4-methyl- (9CI) (CA INDEX NAME)



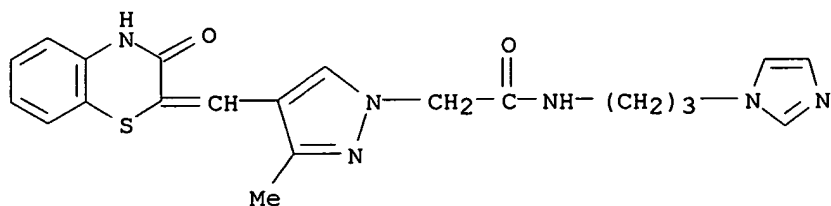
RN 312972-00-2 CAPLUS

CN Piperazine, 1-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-3-methyl-1H-pyrazol-1-yl]acetyl]-4-methyl- (9CI) (CA INDEX NAME)



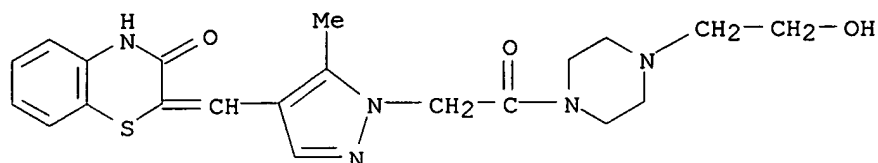
RN 312972-01-3 CAPLUS

CN 1H-Pyrazole-1-acetamide, 4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(1H-imidazol-1-yl)propyl]-3-methyl- (9CI) (CA INDEX NAME)



RN 312972-02-4 CAPLUS

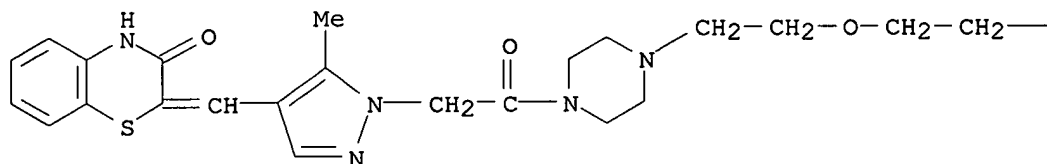
CN 1-Piperazineethanol, 4-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-1H-pyrazol-1-yl]acetyl]- (9CI) (CA INDEX NAME)



RN 312972-03-5 CAPLUS

CN Piperazine, 1-[[4-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-5-methyl-1H-pyrazol-1-yl]acetyl]-4-[2-(2-hydroxyethoxy)ethyl]- (9CI) (CA INDEX NAME)

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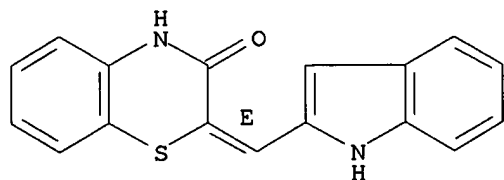
PAGE 1-B

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RN 312972-04-6 CAPLUS

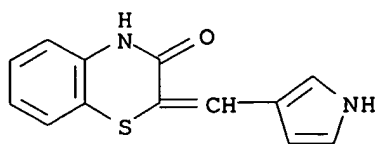
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

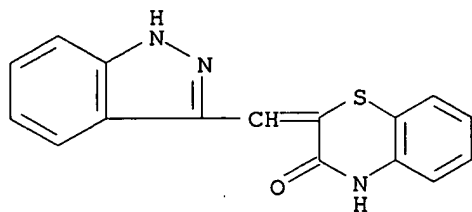


RN 312972-05-7 CAPLUS

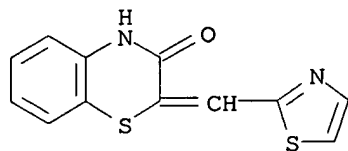
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-3-ylmethylene)- (9CI) (CA INDEX NAME)



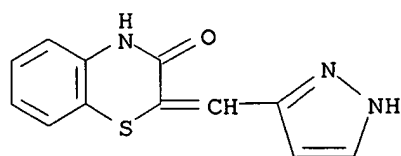
RN 312972-06-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indazol-3-ylmethylene)- (9CI) (CA INDEX NAME)



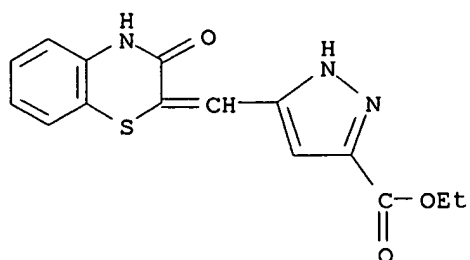
RN 312972-07-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thiazolylmethylene)- (9CI) (CA INDEX NAME)



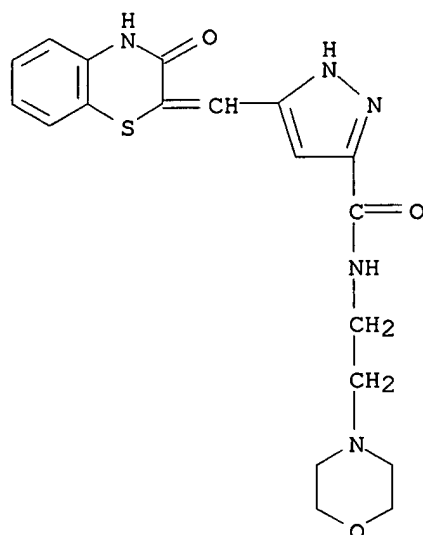
RN 312972-08-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrazol-3-ylmethylene)- (9CI) (CA INDEX NAME)



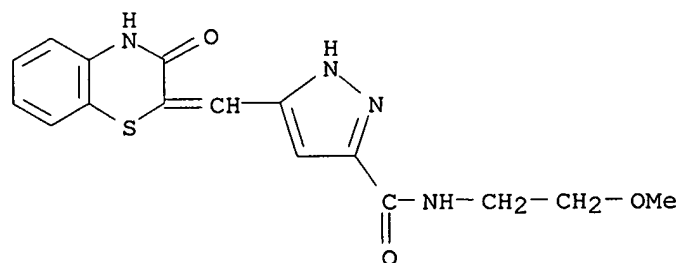
RN 312972-09-1 CAPLUS
 CN 1H-Pyrazole-3-carboxylic acid,
 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-, ethyl ester (9CI) (CA INDEX NAME)



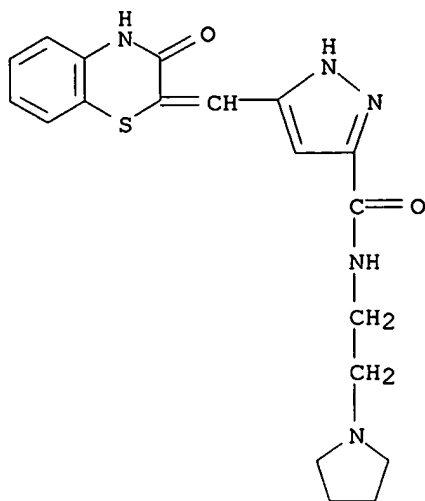
RN 312972-10-4 CAPLUS
 CN 1H-Pyrazole-3-carboxamide, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)



RN 312972-11-5 CAPLUS
 CN 1H-Pyrazole-3-carboxamide, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-(2-methoxyethyl)- (9CI) (CA INDEX NAME)

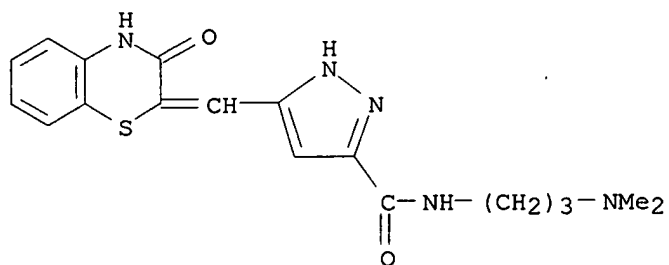


RN 312972-12-6 CAPLUS
 CN 1H-Pyrazole-3-carboxamide, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[2-(1-pyrrolidinyl)ethyl]- (9CI) (CA INDEX NAME)



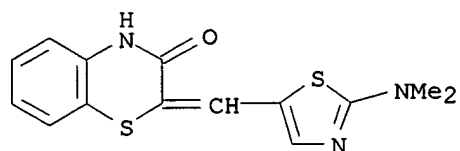
RN 312972-13-7 CAPLUS

CN 1H-Pyrazole-3-carboxamide, 5-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-N-[3-(dimethylamino)propyl]- (9CI) (CA INDEX NAME)



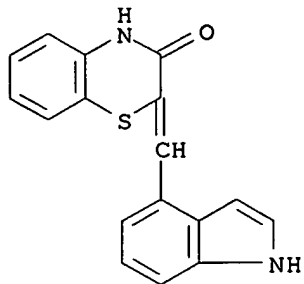
RN 312972-14-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[2-(dimethylamino)-5-thiazolyl]methylene]- (9CI) (CA INDEX NAME)

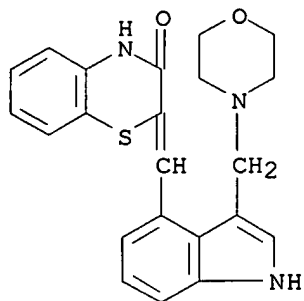


RN 312972-15-9 CAPLUS

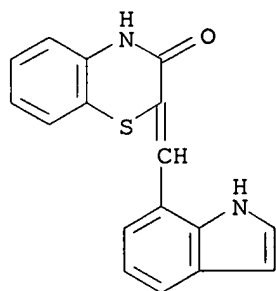
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-4-ylmethylene)- (9CI) (CA INDEX NAME)



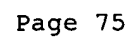
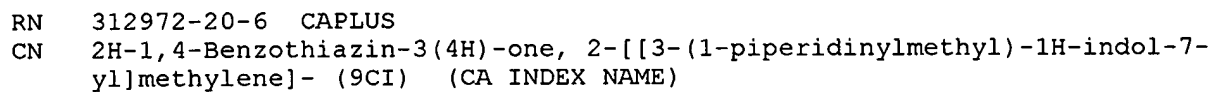
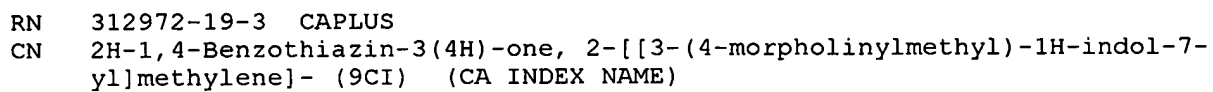
RN 312972-16-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(4-morpholinylmethyl)-1H-indol-4-yl]methylene]- (9CI) (CA INDEX NAME)



RN 312972-17-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-7-ylmethylene)- (9CI) (CA INDEX NAME)

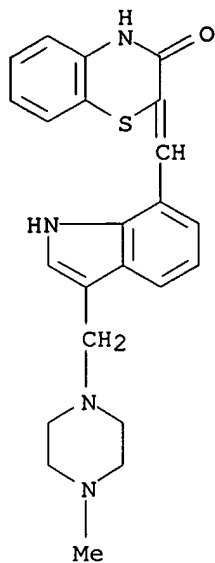


RN 312972-18-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-[(dimethylamino)methyl]-1H-indol-7-yl]methylene]- (9CI) (CA INDEX NAME)



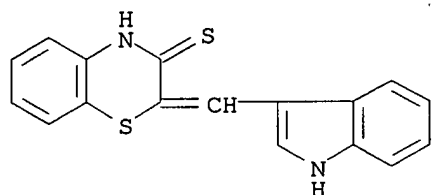
RN 312972-21-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-[(4-methyl-1-piperazinyl)methyl]-1H-indol-7-yl]methylene]- (9CI) (CA INDEX NAME)



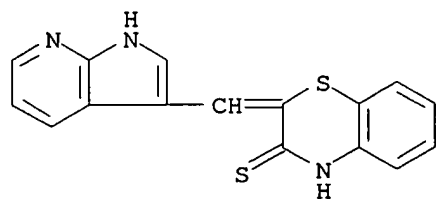
RN 312972-79-5 CAPLUS

CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-(1H-indol-3-ylmethylene)- (9CI) (CA INDEX NAME)



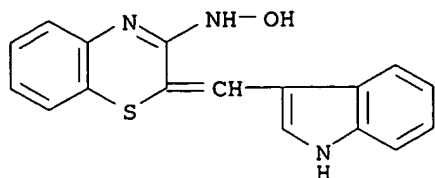
RN 312972-80-8 CAPLUS

CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)- (9CI) (CA INDEX NAME)

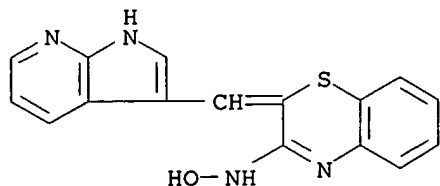


RN 312972-85-3 CAPLUS

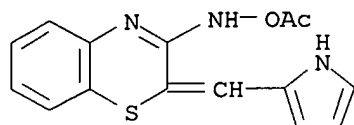
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-, oxime (9CI) (CA INDEX NAME)



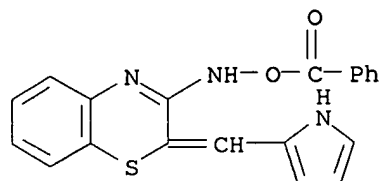
RN 312972-86-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-
 , oxime (9CI) (CA INDEX NAME)



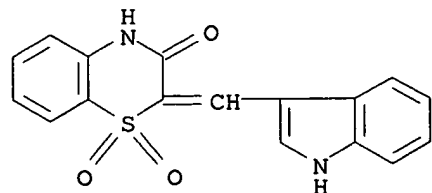
RN 312972-87-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-,
 O-acetyloxime
 (9CI) (CA INDEX NAME)



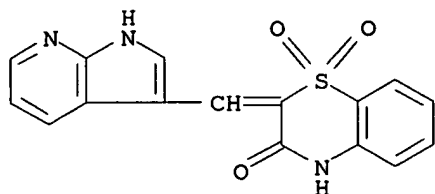
RN 312972-88-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-,
 O-benzoyloxime (9CI) (CA INDEX NAME)



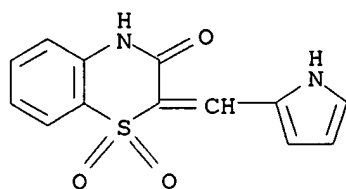
RN 312972-91-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-, 1,1-dioxide
 (9CI) (CA INDEX NAME)



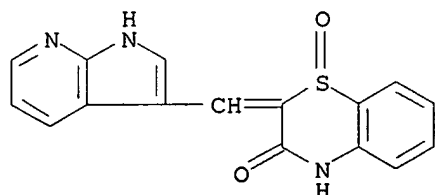
RN 312972-92-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-
 , 1,1-dioxide (9CI) (CA INDEX NAME)



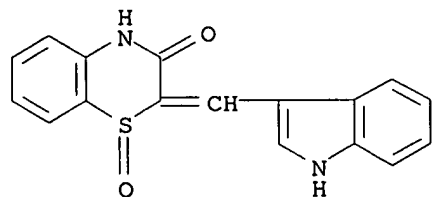
RN 312972-93-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-, 1,1-dioxide
 (9CI) (CA INDEX NAME)



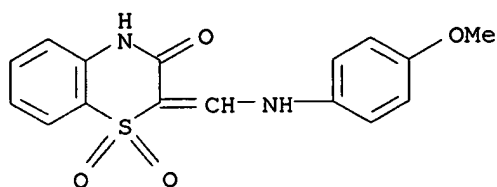
RN 312972-94-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-
 , 1-oxide (9CI) (CA INDEX NAME)



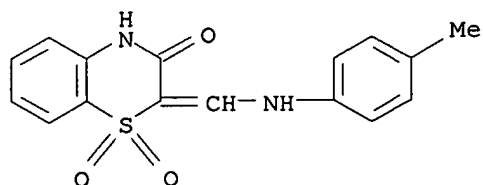
RN 312972-95-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-, 1-oxide (9CI)
 (CA INDEX NAME)



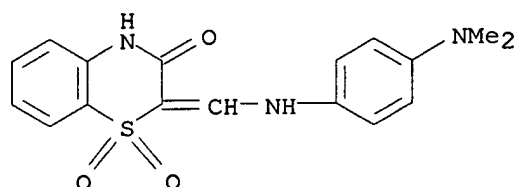
RN 312972-96-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-methoxyphenyl) amino]methylene]-,
 1,1-dioxide (9CI) (CA INDEX NAME)



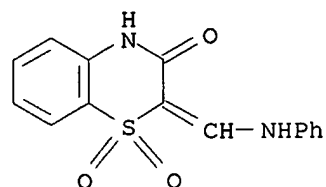
RN 312972-97-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



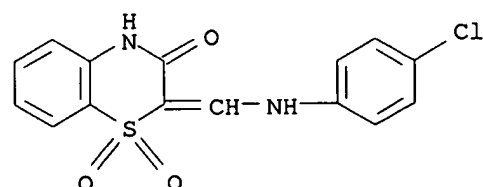
RN 312972-98-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(dimethylamino)phenyl]amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

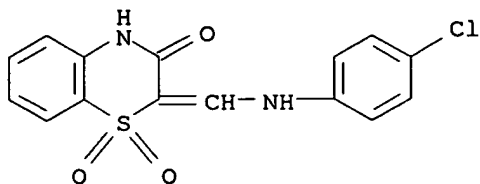


RN 312972-99-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(phenylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

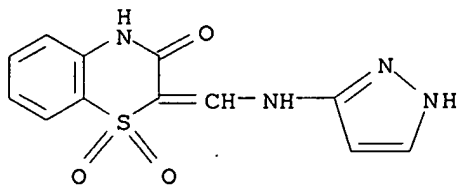


RN 312973-00-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)amino]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

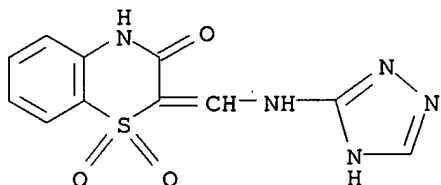




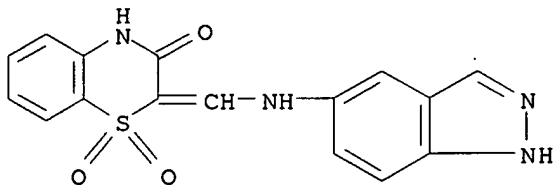
RN 312973-01-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-pyrazol-3-ylamino)methylene]-,
 1,1-dioxide (9CI) (CA INDEX NAME)



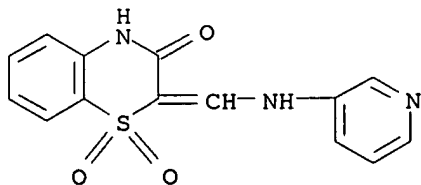
RN 312973-02-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[(1H-1,2,4-triazol-3-ylamino)methylene]-,
 1,1-dioxide (9CI) (CA INDEX NAME)

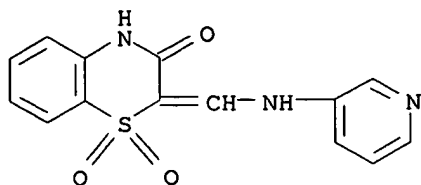


RN 312973-03-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-indazol-5-ylamino)methylene]-,
 1,1-dioxide (9CI) (CA INDEX NAME)

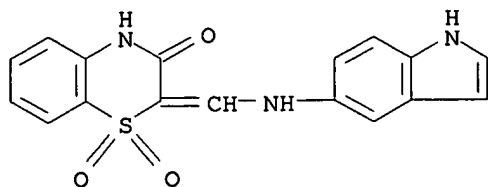


RN 312973-04-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-pyridinylamino)methylene]-,
 1,1-dioxide (9CI) (CA INDEX NAME)



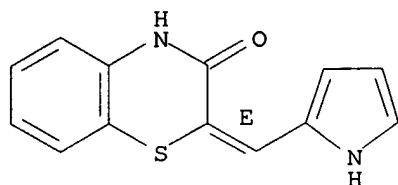


RN 312973-05-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(1H-indol-5-ylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



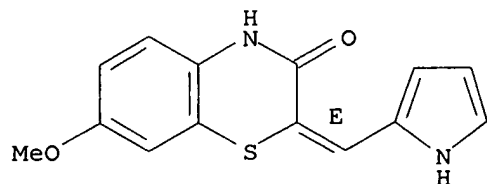
RN 312973-46-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



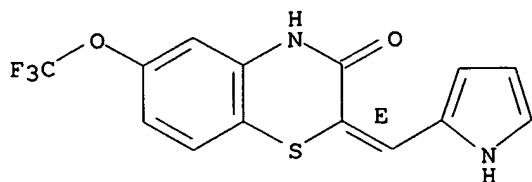
RN 312973-47-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methoxy-2-(1H-pyrrol-2-ylmethylene)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



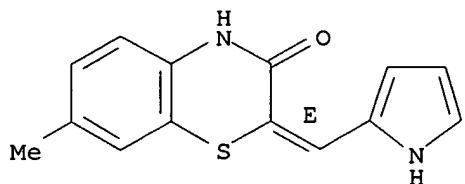
RN 312973-48-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrol-2-ylmethylene)-6-(trifluoromethoxy)-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



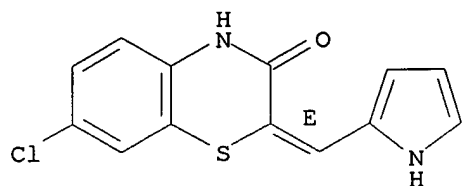
RN 312973-49-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-methyl-2-(1H-pyrrol-2-ylmethylene)-,
 (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



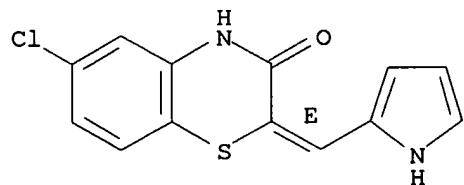
RN 312973-51-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-chloro-2-(1H-pyrrol-2-ylmethylene)-,
 (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



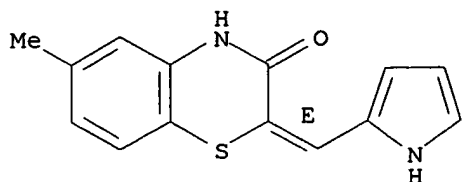
RN 312973-52-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(1H-pyrrol-2-ylmethylene)-,
 (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



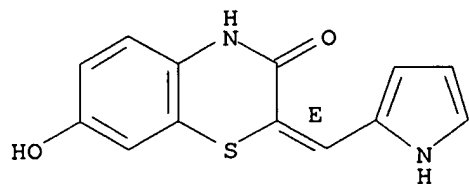
RN 312973-53-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 6-methyl-2-(1H-pyrrol-2-ylmethylene)-,
 (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



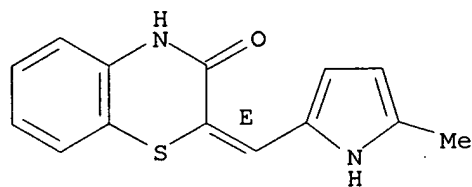
RN 312973-54-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 7-hydroxy-2-((1H-pyrrol-2-yl)methylene)-,
 (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



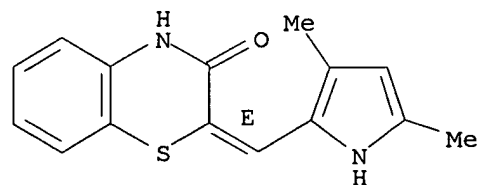
RN 312973-55-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-methyl-1H-pyrrol-2-yl)methylene]-,
 (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312973-56-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[(3,5-dimethyl-1H-pyrrol-2-yl)methylene]-
 , (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

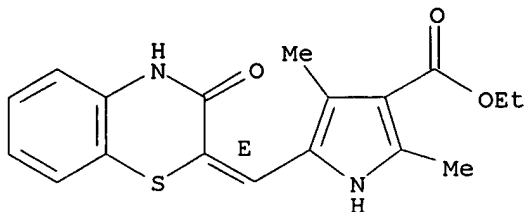


IT 312973-57-2P 312973-58-3P 312973-59-4P
 312973-60-7P 312973-61-8P 312973-62-9P
 312973-63-0P 312973-64-1P 312973-65-2P
 312974-25-7P 312974-26-8P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. and effects of benzothiazinones and benzoxazinones as protein kinase inhibitors)

RN 312973-57-2 CAPLUS
 CN 1H-Pyrrole-3-carboxylic acid, 5-[(E)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2,4-dimethyl-, ethyl ester (9CI) (CA INDEX NAME)

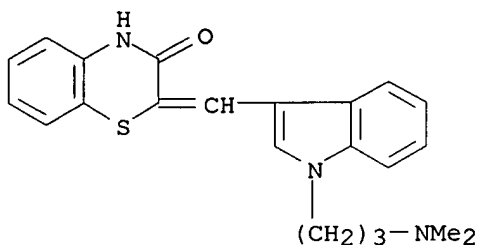
Double bond geometry as shown.



RN 312973-58-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-indol-3-yl]methylene]-, monomethanesulfonate (9CI) (CA INDEX NAME)

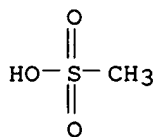
CM 1

CRN 312970-52-8
 CMF C22 H23 N3 O S



CM 2

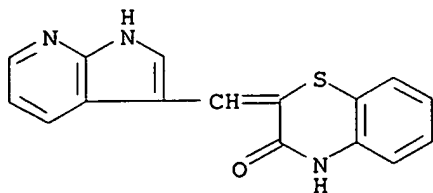
CRN 75-75-2
 CMF C H4 O3 S



RN 312973-59-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, monomethanesulfonate (9CI) (CA INDEX NAME)

CM 1

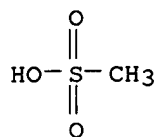
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 CMF C16 H11 N3 O S



CM 2

CRN 75-75-2

CMF C H4 O3 S



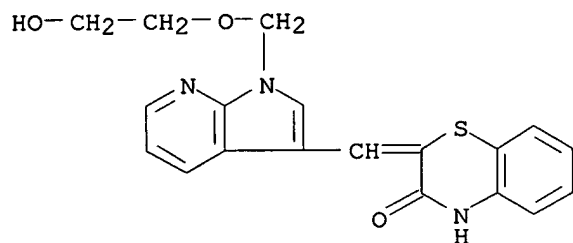
RN 312973-60-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[(2-hydroxyethoxy)methyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]-, monomethanesulfonate (salt) (9CI)
(CA INDEX NAME)

CM 1

CRN 312971-39-4

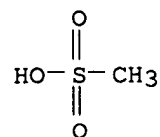
CMF C19 H17 N3 O3 S



CM 2

CRN 75-75-2

CMF C H4 O3 S

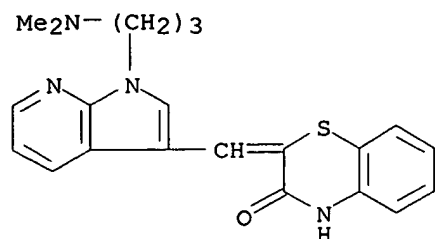


RN 312973-61-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[3-(dimethylamino)propyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]-, monomethanesulfonate (9CI) (CA INDEX NAME)

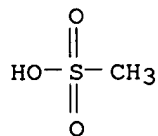
CM 1

CRN 312971-40-7
CMF C21 H22 N4 O S



CM 2

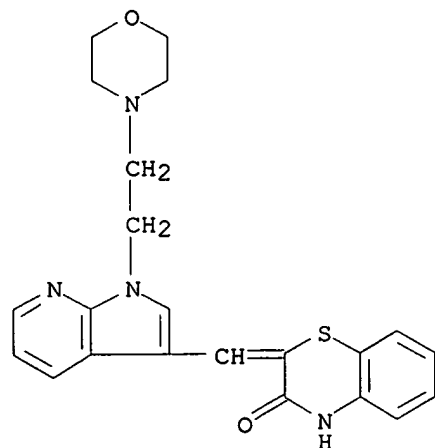
CRN 75-75-2
CMF C H4 O3 S



RN 312973-62-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[1-[2-(4-morpholinyl)ethyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]methylene]-, monomethanesulfonate (9CI) (CA INDEX NAME)

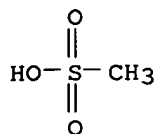
CM 1

CRN 312971-41-8
CMF C22 H22 N4 O2 S



CM 2

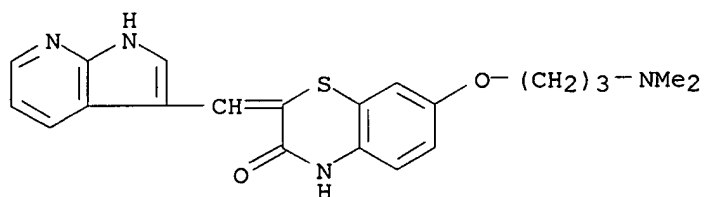
CRN 75-75-2
CMF C H4 O3 S



RN 312973-63-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 7-[3-(dimethylamino)propoxy]-2-(1H-pyrrolo[2,3-b]pyridin-3-ylmethylene)-, monomethanesulfonate (9CI) (CA INDEX NAME)

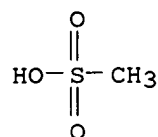
CM 1

CRN 312971-42-9
CMF C21 H22 N4 O2 S



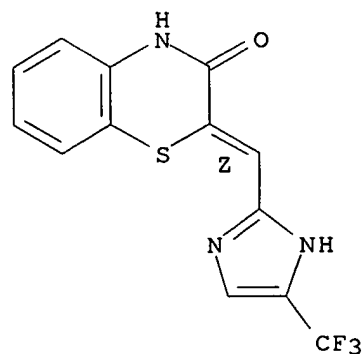
CM 2

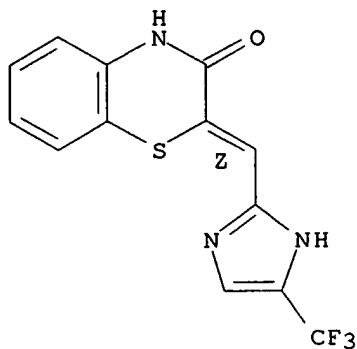
CRN 75-75-2
CMF C H4 O3 S



RN 312973-64-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(trifluoromethyl)-1H-imidazol-2-yl]methylene]-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

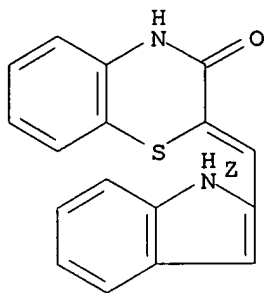




RN 312973-65-2 CAPLUS

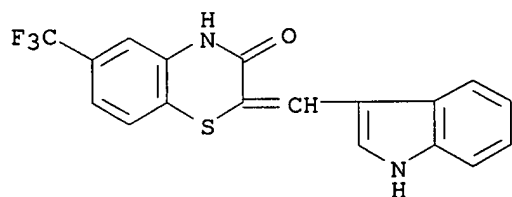
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-2-ylmethylene)-, (2Z)- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.



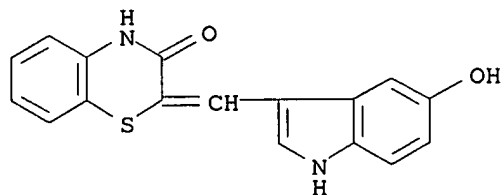
RN 312974-25-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1H-indol-3-ylmethylene)-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



RN 312974-26-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-hydroxy-1H-indol-3-yl)methylene]- (9CI) (CA INDEX NAME)

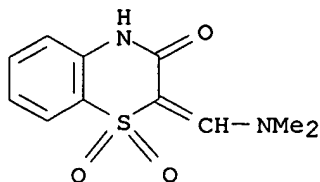


IT 70685-26-6 312973-44-7 312973-45-8

RL: RCT (Reactant)

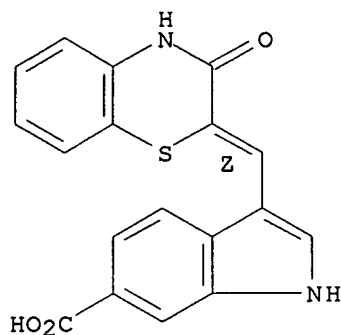
(prepn. and effects of benzothiazinones and benzoxazinones as protein

kinase inhibitors)
 RN 70685-26-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(dimethylamino)methylene]-, 1,1-dioxide
 (9CI) (CA INDEX NAME)



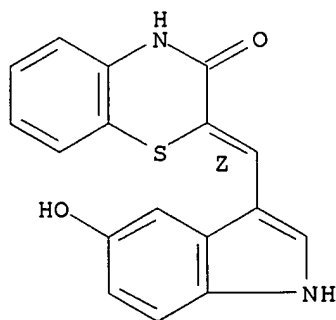
RN 312973-44-7 CAPLUS
 CN 1H-Indole-6-carboxylic acid,
 3-[(Z)-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-
 2-ylidene)methyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 312973-45-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(5-hydroxy-1H-indol-3-yl)methylene]-,
 (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



~~114~~ ANSWER 2 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:756696 CAPLUS

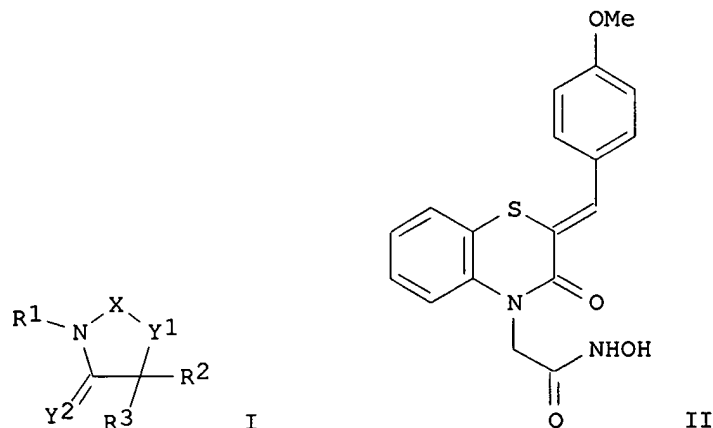
DOCUMENT NUMBER: 133:321892

TITLE: Preparation of hydroxamic acid derivatives as matrix metallo-proteinase inhibitors

INVENTOR(S): Scarlato, Gerard Robert; Hadida, Ruah Sara Sabina; Nishimura, Tamiki; Nakatsuka, Masashi; Samizo, Fumio; Kamikawa, Yumiko; Houtigai, Hitoshi

PATENT ASSIGNEE(S): Sumitomo Pharmaceuticals Co., Ltd., Japan; Hadida
 Ruah, Sara Sabina
 SOURCE: PCT Int. Appl., 218 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000063197	A1	20001026	WO 2000-US10383	20000419
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1999-129933	P 19990419
OTHER SOURCE(S):			MARPAT 133:321892	
GI				



AB The title compds. [I; X = (un)substituted alkylene, ortho-heteroarylene; Y1 = O, S, SO, SO₂; Y2 = O, S; one of R1 and R3 = (CHR₄)_nCR₅R₆CONHOH; the other R1 and R3 = H, (un)substituted alkyl, cycloalkyl; R2 = H, (un)substituted alkyl, alkenyl, etc.; R4-R6 = H, (un)substituted alkyl, alkenyl, etc.; or R5 may be joined with R4 or R6 to form, with the carbon atom which they attach (un)substituted cycloalkane or heterocycloalkane;

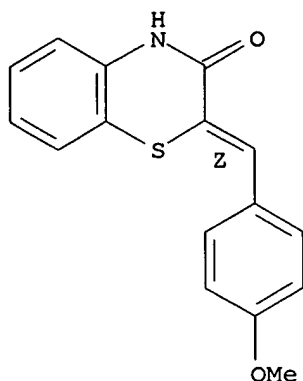
n = 0-4], useful as matrix metallo-proteinase (e.g., MMP-2, MMP-3, MMP-9, and MMP-13) inhibitors, were prepd. E.g., a multi-step synthesis of 1,4-benzothiazin-3(4H)-one II which showed IC₅₀ of 1.0 .mu.M against MMP-2, and 20% inhibition of TNF-.alpha. prodn. at 5 .mu.M, was given.

IT **55043-26-0**
 RL: RCT (Reactant)
 (prepn. of hydroxamic acid derivs. as matrix metallo-proteinase inhibitors)

RN 55043-26-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-, (2Z)-
 (9CI) (CA INDEX NAME)

Double bond geometry as shown.

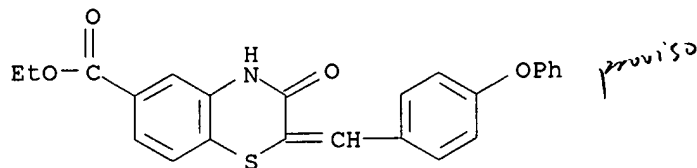


IT 302836-56-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of hydroxamic acid derivs. as matrix metallo-proteinase
inhibitors)

RN 302836-56-2 CAPLUS

CN 2H-1,4-Benzothiazine-6-carboxylic acid, 3,4-dihydro-3-oxo-2-[(4-
phenoxyphenyl)methylene]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT:

REFERENCE(S):

5

- (1) Ciba Geigy Ag; EP 0606046 A 1994 CAPLUS
- (2) Du Pont Merck Pharma; WO 9633176 A 1996 CAPLUS
- (3) Hoechst Ag; DE 19542189 A 1997 CAPLUS
- (4) Sunkyong Ind Ltd; WO 9620936 A 1996 CAPLUS
- (5) Yoshitomi Pharmaceutical; FR 2434150 A 1980

CAPLUS

114 ANSWER 3 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:665626 CAPLUS

DOCUMENT NUMBER: 133:253885

TITLE: Thiazine-indigo compounds, their production and use
and intermediates therefor

INVENTOR(S): Borchert, Till; Kaul, Bansilal; Piastra, Bruno;
Wolf,

PATENT ASSIGNEE(S): Valerie; Rothe, Petra; Unverdorben, Leonhard
Clariant Finance (BVI) Limited, Virgin I. (Brit.)

SOURCE: Eur. Pat. Appl., 36 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1036821	A1	20000920	EP 2000-810221	20000316
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO
JP 2000344757 A2 20001212 JP 2000-58620 20000303
PRIORITY APPLN. INFO.: GB 1999-6120 A 19990318
GB 1999-18805 A 19990811

OTHER SOURCE(S): MARPAT 133:253885

AB New heterocyclic compds. are disclosed which are used as intermediates for

the prepn. of trans-thiazine-indigo pigments which are in part new compds.

and can be used for the mass pigmentation of org. substrates. Also disclosed are different environmentally friendly water-based processes for

the prepn. of the new heterocyclic compds. and the corresponding pigments.

Thus, o-aminothiophneol was cyclocondensed with 2,3-dichloromaleic acid to

give a benzothiazine deriv. which was then cyclocondensed with bis(4-carboxamido-2-nitrophenyl) disulfide to provide cis-thiazine-indigo compd. which was isomerized to the trans red-orange pigment.

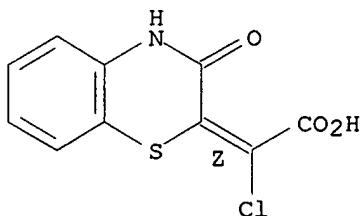
IT 106660-05-3P 294867-02-0P

· RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation) (intermediate; prodn. of thiazine-indigo pigments)

RN 106660-05-3 CAPLUS

CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (2Z)- (9CI) (CA INDEX NAME)

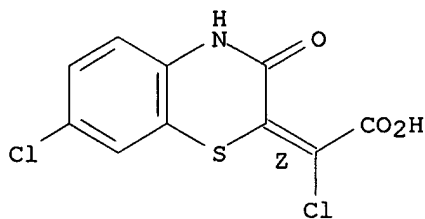
Double bond geometry as shown.



RN 294867-02-0 CAPLUS

CN Acetic acid, chloro(7-chloro-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 4

REFERENCE(S):

- (1) Basf Ag; DE 2536120 A 1977 CAPLUS
- (2) Kaul, B; US 3803139 A 1974 CAPLUS
- (3) Kaul, B; WO 9832800 A 1998 CAPLUS
- (4) Kaul, B; HELVETICA CHIMICA ACTA 1974, V57(8), P2664 CAPLUS

L14 ANSWER 4 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:616053 CAPLUS

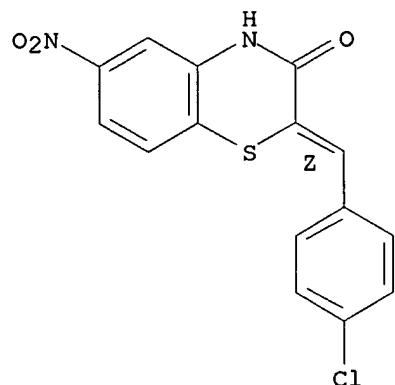
DOCUMENT NUMBER: 134:193369

TITLE: Synthesis and structural study of substituted
 arylideneimidazolidines and arylidenebenzothiazines
 AUTHOR(S): Brandao, S. S. F.; Guarda, V. L.; Pitta, I. R.;
 Chantegrel, J.; Perrissin, M.; Souza, V. M.; Galdino,
 S. L.; Thomasson, F.; Lima, M. C. A.; Leite, L. F. C.
 C.; Luu-Duc, C.
 CORPORATE SOURCE: Universidade Federal de Pernambuco, Recife,
 50.670-901, Brazil
 SOURCE: Boll. Chim. Farm. (2000), 139(2), 54-58
 CODEN: BCFAAI; ISSN: 0006-6648
 PUBLISHER: Societa Editoriale Farmaceutica
 DOCUMENT TYPE: Journal
 LANGUAGE: French

AB Synthesis and physicochem. properties of six
 5-arylidene-3-benzyl-1-methyl-
 2-thioxoimidazolidin-4-ones and three 2-arylidene-6-nitro-2H-1,4-
 benzothiazin-3(4H)-ones have been described. These new compds. were
 synthesized by the Knoevenagel condensation reaction from arom.
 aldehydes.
 The N-alkylation reaction of arylidenebenzothiazines by Me iodide gives
 the N-methylarylidenebenzothiazines.
 IT 328001-00-9P 328001-01-0P 328001-02-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and structural study of arylideneimidazolidines and
 arylidenebenzothiazines)
 RN 328001-00-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-6-nitro-,
 (2Z)- (9CI) (CA INDEX NAME)

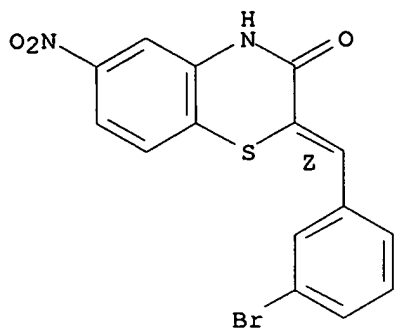
interesting

Double bond geometry as shown.



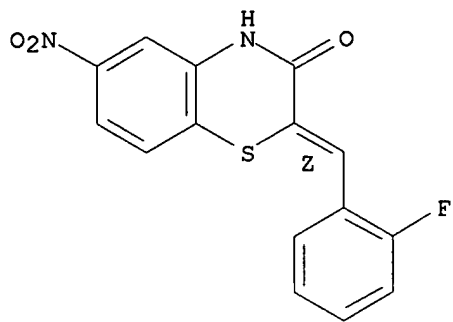
RN 328001-01-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-bromophenyl)methylene]-6-nitro-,
 (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



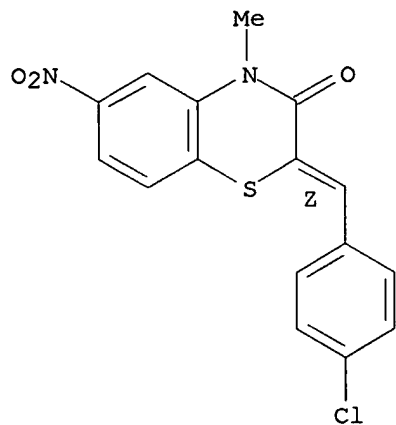
RN 328001-02-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-fluorophenyl)methylene]-6-nitro-,
 (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



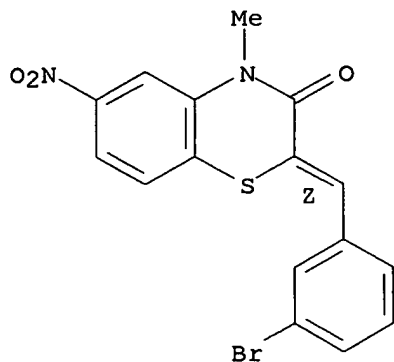
IT 328001-03-2P 328001-04-3P 328001-05-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and structural study of arylideneimidazolidines and
 arylidenebenzothiazines)
 RN 328001-03-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-4-methyl-6-
 nitro-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 328001-04-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-bromophenyl)methylene]-4-methyl-6-
 nitro-, (2Z)- (9CI) (CA INDEX NAME)

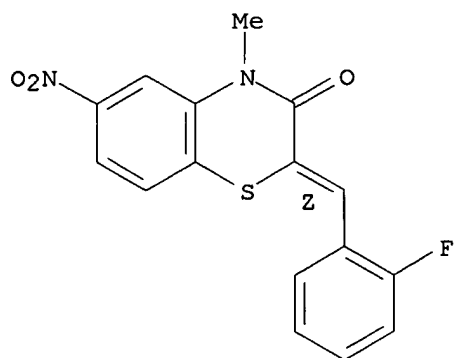
Double bond geometry as shown.



RN 328001-05-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-fluorophenyl)methylene]-4-methyl-6-nitro-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT:

15

REFERENCE(S):

- (1) Albuquerque, J; Ann Pharm Fr 1995, V53, P209 CAPLUS
- (2) Albuquerque, J; Pharmazie 1995, V50, P387 CAPLUS
- (4) Costa, D; J Pharm Belg 1995, V50, P5 CAPLUS
- (5) Del Corona, L; Eur J Med Chem 1992, V27, P419 CAPLUS
- (7) Grandolini, G; Eur J Med Chem 1986, V21, P455 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 5 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:487539 CAPLUS

DOCUMENT NUMBER: 131:129999

TITLE: Preparation of oxazolidines substituted with bicycles as antimicrobial agents

INVENTOR(S): Bartel, Stephan; Guarnieri, Walter; Haebich, Dieter; Raddatz, Siegfried; Riedl, Bernd; Rosentreter, Ulrich;

Ruppelt, Martin; Stolle, Andreas; Wild, Hanno; Endermann, Rainer; Kroll, Hein-Peter

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 88 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19802239	A1	19990729	DE 1998-19802239	19980122
WO 9937641	A1	19990729	WO 1999-EP96	19990109
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9926161	A1	19990809	AU 1999-26161	19990109
EP 1049692	A1	20001108	EP 1999-906112	19990109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRIORITY APPLN. INFO.:			DE 1998-19802239 A	19980122
			WO 1999-EP96	W 19990109
OTHER SOURCE(S):			MARPAT 131:129999	
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I; R = Me, Et, COOMe, (CH₃)₂CH, R₁ = H; R-R₁ = (CH₂)₃; R₃ =

OH, OSO₂Me, N₃, NH₂, NHCONH₂, NHAc, NHCOCH₂Br, NHCOOMe, NHCOEt, NHCOCF₃, NHCOOBu-t, cyclopropylcarbonylamino, 2-furylcarbonylamino, NHP(OMe)₂:O, etc.; X = C:O, CH₂, S, S:O, SO₂; Y = CH₂, CHCH₃, NMe, C:O, C₆H₅CH:C, C₆H₅CH₂C:, 4-ClC₆H₄CH:C, 4-MeOC₆H₄CH:C, etc.; Z = O, CH₂], enantiomers, and salts are prepd. Thus, the title compd. II was prepd. from 7-nitro-2H-1,4-benzoxazin-3-one, C₆H₅CH₂OCONHCl, and (R)-(-)-glycidyl butyrate via redn. cyclization and was tested against Staphylococcus aureus, Mycobacterium smegmatis, and Streptococcus pneumoniae.

IT 233775-06-9P

RL: BAC (Biological activity or effector, except adverse); RCT

(Reactant);

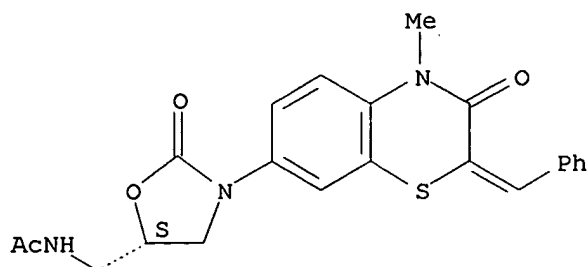
SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. of oxazolidines substituted with bicycles as antimicrobial agents)

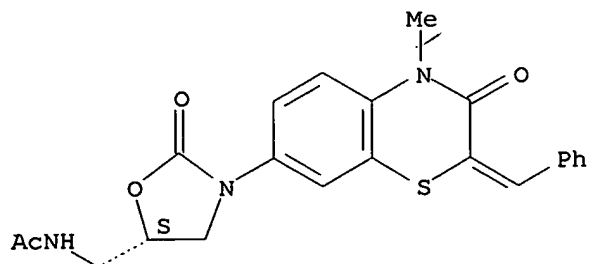
RN 233775-06-9 CAPLUS

CN Acetamide, N-[[(5S)-3-[3,4-dihydro-4-methyl-3-oxo-2-(phenylmethylene)-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.





IT 233775-07-0P 233775-08-1P 233775-09-2P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of oxazolidinones substituted with bicycles as antimicrobial agents)

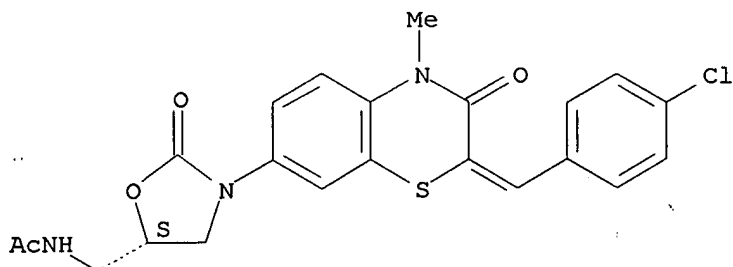
RN 233775-07-0 CAPLUS

CN Acetamide,

N-[[(5S)-3-[2-[(4-chlorophenyl)methylene]-3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



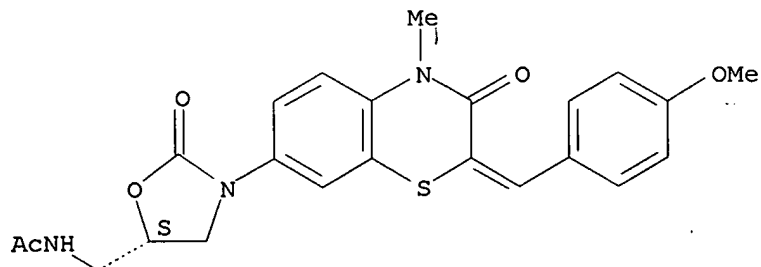
RN 233775-08-1 CAPLUS

CN Acetamide,

N-[[(5S)-3-[3,4-dihydro-2-[(4-methoxyphenyl)methylene]-4-methyl-3-oxo-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

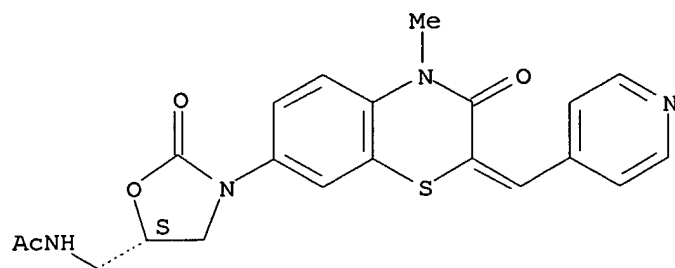


RN 233775-09-2 CAPLUS

CN Acetamide,

N-[[(5S)-3-[3,4-dihydro-4-methyl-3-oxo-2-(4-pyridinylmethylene)-2H-1,4-benzothiazin-7-yl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



L14 ANSWER 6 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:284060 CAPLUS

DOCUMENT NUMBER: 131:44782

TITLE: Synthesis of 2-substituted
6,8-dichloro-3,4-dihydro-3-

oxo-2H-1,4-benzothiazine 1,1-dioxides and 1-oxides as
glycine-NMDA receptor antagonists

AUTHOR(S): Varano, Flavia; Catarzi, Daniela; Colotta, Vittoria;
Filacchioni, Guido; Cecchi, Lucia; Galli, Alessandro;
Costagli, Chiara

CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Universita di
Firenze, Florence, 50121, Italy

SOURCE: Farmaco (1998), 53(12), 752-757

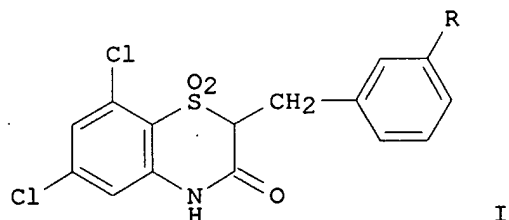
CODEN: FRMCE8; ISSN: 0014-827X

PUBLISHER: Elsevier Science S.A.

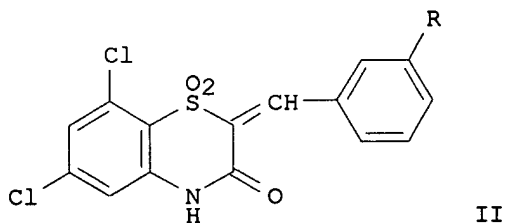
DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I



II

AB Title compds. I (R = H, Br), II (R = H, Br), and the corresponding
monoxides, bioisosteres of RPR 104632, in which the 3-carboxylic group
was

replaced by a carbonyl group, were synthesized. Comparative in vitro
pharmacol. studies on this series of RPR 104632 analogs were performed
using receptor binding assays. None of these compds. showed detectable
binding affinity for the glycine-NMDA receptor.

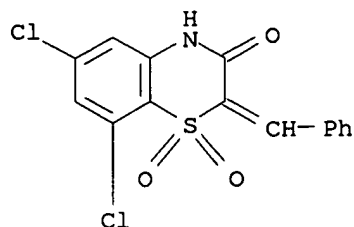
IT 227012-79-5P 227012-80-8P 227012-81-9P

227012-82-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and lack of affinity for glycine-NMDA receptor)

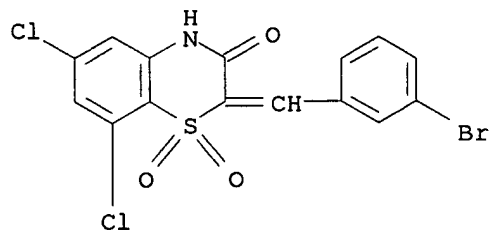
RN 227012-79-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 6,8-dichloro-2-(phenylmethylene)-,
1,1-dioxide (9CI) (CA INDEX NAME)



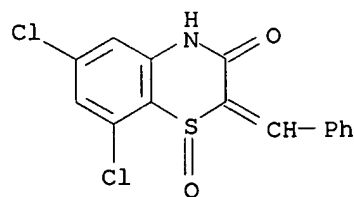
RN 227012-80-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[(3-bromophenyl)methylene]-6,8-dichloro-,
1,1-dioxide (9CI) (CA INDEX NAME)



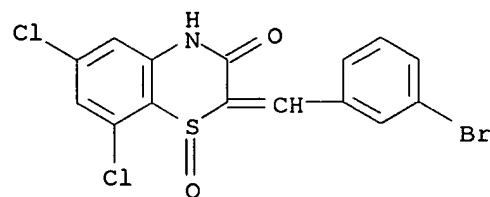
RN 227012-81-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 6,8-dichloro-2-(phenylmethylene)-, 1-oxide
(9CI) (CA INDEX NAME)



RN 227012-82-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[(3-bromophenyl)methylene]-6,8-dichloro-,
1-oxide (9CI) (CA INDEX NAME)



REFERENCE COUNT:

REFERENCE(S):

14

(1) Boireau, A; Eur J Pharmacol 1996, V300, P237

CAPLUS

(4) de Lean, A; Am J Physiol 1978, V235, PE97 CAPLUS

(7) Johnson, J; Nature 1987, V325, P529 CAPLUS

(8) Kemp, J; Trends Pharmacol Sci 1993, V14, P20

CAPLUS

(9) Kulagowski, J; Exp Opin Ther Patents 1996, V6,

P1069 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

~~114~~ ANSWER 7 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:248133 CAPLUS

DOCUMENT NUMBER: 129:4618

TITLE: Pummerer reaction of 2-vinylcyclopropyl sulfoxides: generation and reactions of butadienylthionium ion intermediates

AUTHOR(S): Iwama, Tetsuo; Matsumoto, Harutoshi; Shimizu, Hiroshi;

CORPORATE SOURCE: Kataoka, Tadashi; Muraoka, Osamu; Tanabe, Genzoh
SOURCE: Gifu Pharmaceutical University, Gifu, 502-8585, Japan
J. Chem. Soc., Perkin Trans. 1 (1998), (9), 1569-1576

CODEN: JCPRB4; ISSN: 0300-922X

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 129:4618

AB Generation of butadienylthionium ions in the Pummerer reactions of 2-vinylcyclopropyl sulfoxides was studied. Although the Pummerer reaction

of 2-vinylcyclopropyl sulfoxides are complicated, benzothiazinone derivs. smoothly react with trifluoroacetic anhydride to give 1,3-dienes in good yields. The reactions proceed via butadienylthionium ions by proton abstraction from the 2'-Me group or the cyclopropane ring. Reactions of disubstituted benzothiazinones provided cyclic dienes while treatment of mono- or unsubstituted derivs. gave acyclic conjugated dienes. Vinylcyclopropyl sulfoxides were prepd. by MCPBA oxidn. of the corresponding 2-vinylcyclopropyl sulfides, resp., which were obtained by cyclopropanation of .alpha.-chloro sulfides with 1,3-dienes via a 5,6-dihydro-2H-thiopyranium intermediate.

IT 207507-89-9P

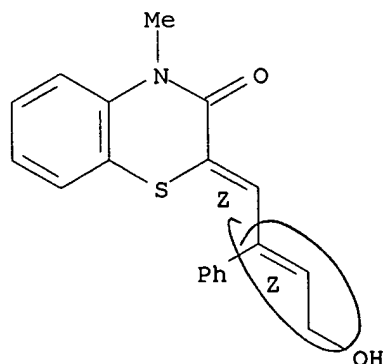
RL: SPN (Synthetic preparation); PREP (Preparation)

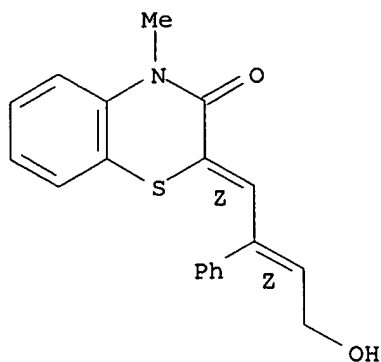
(Pummerer reaction of vinylcyclopropyl sulfoxides and generation and reaction of butadienylthionium intermediates)

RN 207507-89-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[(2Z)-4-hydroxy-2-phenyl-2-butenylidene]-
4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

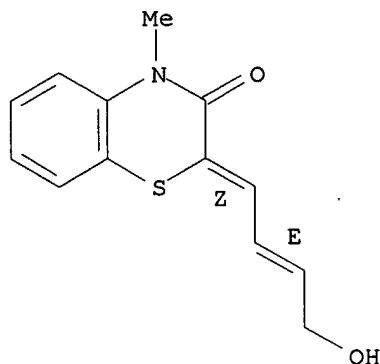
Double bond geometry as shown.





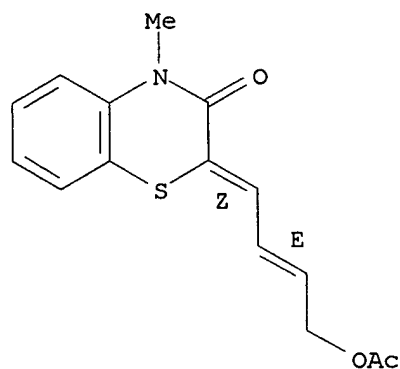
IT 207506-88-5P 207506-89-6P 207506-90-9P
 207506-91-0P 207506-92-1P 207506-93-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 207506-88-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[(2E)-4-hydroxy-2-butenylidene]-4-methyl-
 , (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 207506-89-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2E)-4-(acetyloxy)-2-butenylidene]-4-
 methyl-, (2Z)- (9CI) (CA INDEX NAME)

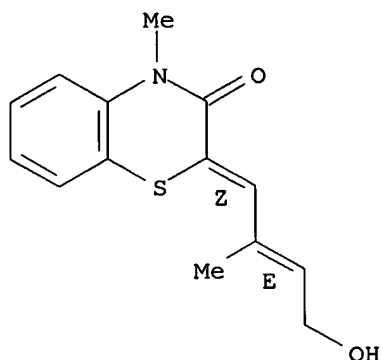
Double bond geometry as shown.



RN 207506-90-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[(2E)-4-hydroxy-2-methyl-2-butenylidene]-
 Hong

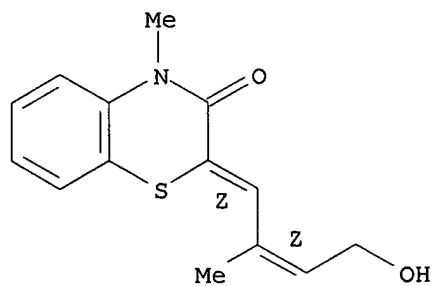
4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



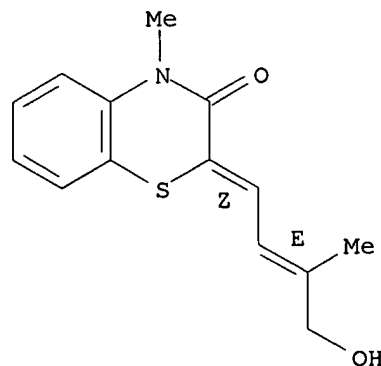
RN 207506-91-0 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[(2Z)-4-hydroxy-2-methyl-2-butenylidene]-
4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



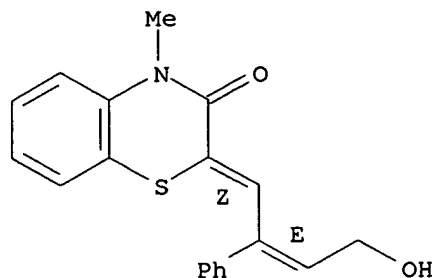
RN 207506-92-1 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[(2E)-4-hydroxy-3-methyl-2-butenylidene]-
4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 207506-93-2 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[(2E)-4-hydroxy-2-phenyl-2-butenylidene]-
4-methyl-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



114 ANSWER 8 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:261364 CAPLUS

DOCUMENT NUMBER: 126:343367

TITLE: Acid-promoted isomerization of 1-acceptor-1-sulfenyl-substituted 2-vinylcyclopropanes with C1-C2 bond fission and novel 1,5-sulfenyl rearrangement

AUTHOR(S): Iwama, Tetsuo; Matsumoto, Harutoshi; Kataoka, Tadashi

CORPORATE SOURCE: Gifu Pharmaceutical University, Gifu, 502, Japan

SOURCE: J. Chem. Soc., Perkin Trans. 1 (1997), (6), 835-843

CODEN: JCPRB4; ISSN: 0300-922X

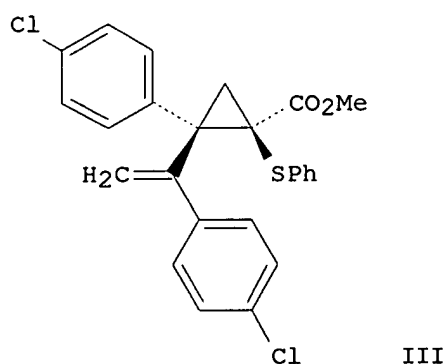
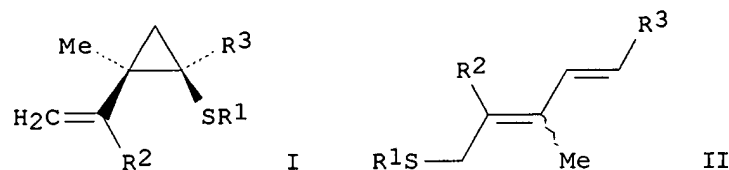
PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 126:343367

GI



AB The 1-acceptor-1-sulfenyl-substituted vinylcyclopropane derivs., i.e., (ethenyl)(mercapto)cyclopropane derivs., I [R1 = (un)substituted Ph, Me; R2 = H, Me; R3 = CO2Me, cyano] underwent C1-C2 bond fission and 1,5-sulfenyl rearrangement to give 6-sulfenyl-.alpha.,.beta.;.gamma.,.delta.-unsatd. carboxylic esters and nitriles II (same R1-R3). by treatment with acid. The reactions proceed smoothly by use of a sulfonic acid such as p-TsOH.cntdot.H2O, CF3SO3H etc. in a

non-polar solvent. The result obtained from reactions of III implied that the C1-C2 bond cleavage and deprotonation from the C2-Me group of substrates 1 occur via a concerted process. A cross-over expt. showed that the 1,5-sulfenyl shift proceeded intermolecularly. Addn. of a catalytic amt. of m-MeC6H4SH improves the yield of the rearranged product II.

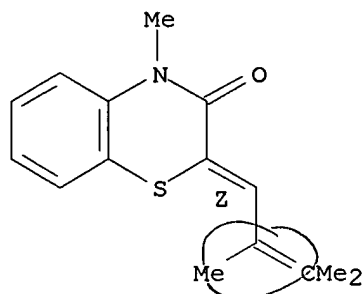
IT 190005-72-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 190005-72-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2,3-dimethyl-2-butenylidene)-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L14 ANSWER 9 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1995:885820 CAPLUS

DOCUMENT NUMBER: 124:55745

TITLE: Study of microwave irradiation effect on condensation of 6-R-3-formylchromones with active methylene compounds

AUTHOR(S): Gasparova, Renata; Lacova, Margita

CORPORATE SOURCE: Dep. Org. Chem., Comenius Univ., Bratislava, 842 15, Slovakia

SOURCE: Collect. Czech. Chem. Commun. (1995), 60(7), 1178-85
CODEN: CCCCAK; ISSN: 0010-0765

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 124:55745

AB Condensation of 6-R-3-formylchromones with 3,3-dimethyl-1,3-cyclohexanedione, 1,3-indandione, 1,2'-biindenylidene-3,1',3'-trione (bindone), 2-oxo-1,4-benzothiazine, and 3-oxo-2,3-dihydro-1-thia-3a,8-diazacyclopent[a]indene by the "classical" method, as well as

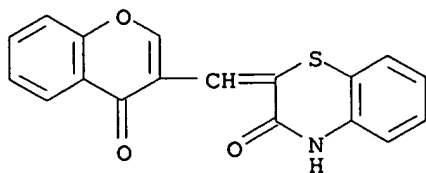
condensation in a microwave oven, has been studied. Some subsequent reactions of these products are described.

IT 172170-67-1P 172170-70-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(study of microwave irradiation effect on condensation of formylchromones with active methylene compds.)

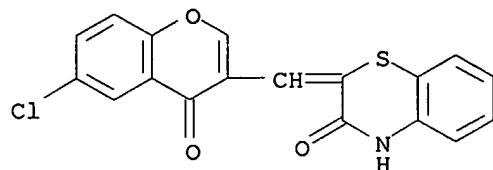
RN 172170-67-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)



RN 172170-70-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-chloro-4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)

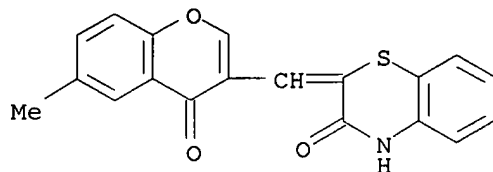


IT 172170-68-2P 172170-69-3P 172170-72-8P
172170-73-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(study of microwave irradiation effect on condensation of formylchromones
with active methylene compounds.)

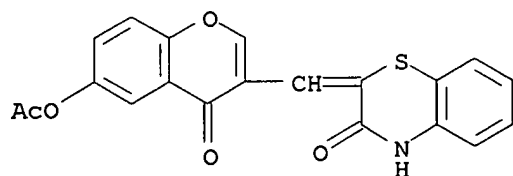
RN 172170-68-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(6-methyl-4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)



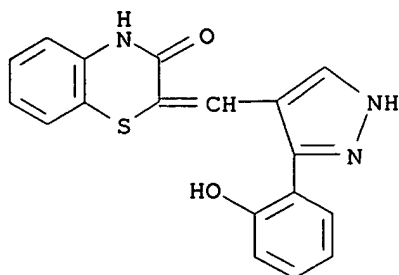
RN 172170-69-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[6-(acetyloxy)-4-oxo-4H-1-benzopyran-3-yl)methylene]- (9CI) (CA INDEX NAME)

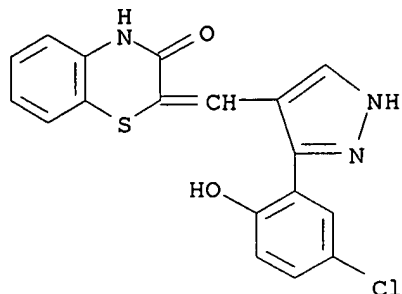


RN 172170-72-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(2-hydroxyphenyl)-1H-pyrazol-4-yl)methylene]- (9CI) (CA INDEX NAME)



RN 172170-73-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[3-(5-chloro-2-hydroxyphenyl)-1H-pyrazol-
 4-yl]methylene]- (9CI) (CA INDEX NAME)



L14 ANSWER 10 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1995:784965 CAPLUS
 DOCUMENT NUMBER: 123:198818
 TITLE: Preparation and formulation of benzothiazine
 derivatives as antioxidants
 INVENTOR(S): Kawashima, Yoichi; Ota, Atsutoshi; Mibu, Hiroyuki;
 Matsubayashi, Kenichiro
 PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 45 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

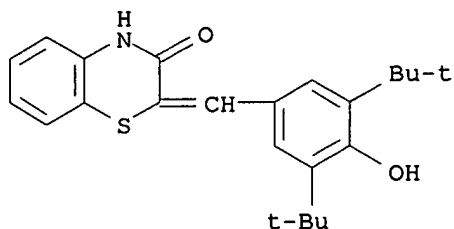
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WO 9513269	A1	19950518	WO 1994-JP1907	19941110
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RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
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PRIORITY APPLN. INFO.:			JP 1993-283684	19931112
			JP 1993-283685	19931112
OTHER SOURCE(S):			MARPAT 123:198818	
GI				

AB The title compds. I [R1 represents optionally protected hydroxy; R2 represents lower alkyl; R3 represents hydrogen, lower alkyl, optionally protected hydroxy or lower alkoxy, wherein the lower alkyl group may be substituted by optionally protected hydroxy, amino or lower alkylamino; R4 represents carboxyl which may be in the form of an ester or amide; A represents alkylene; and B represents CH₂, etc.] are prepd. I stabilize proteins, inhibit lipid peroxide formation, and are useful as potential agents for the treatment of cataract. The title compds. II and III (prepn. given) in vitro at 10⁻⁶ M gave 99% inhibition of lipid peroxidn.

IT **156776-32-8**
 RL: RCT (Reactant)
 (prepn. of benzothiazine derivs. as antioxidants)

RN 156776-32-8 CAPLUS

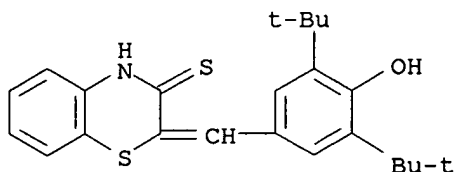
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



IT **167549-24-8P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of benzothiazine derivs. as antioxidants)

RN 167549-24-8 CAPLUS

CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



L14 ANSWER 11 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1995:761702 CAPLUS

DOCUMENT NUMBER: 123:169638

TITLE: Preparation of 3-oxo-1,4-benzothiazines as protein stabilizers and lipid peroxide formation inhibitors

INVENTOR(S): Kawashima, Yoichi; Ota, Atsuigaoka; Morikawa, Yuko; Mibu, Hiroyuki

PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 21 pp.
 CODEN: EPXXDW

DOCUMENT TYPE: Patent

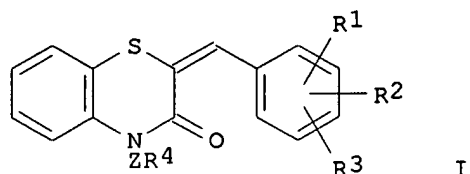
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FAMILY ACC. NUM. COUNT: 1

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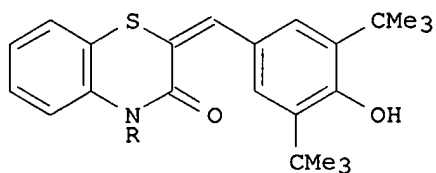
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,
 SE
 US 5547952 A 19960820 US 1994-347043 19941130
 JP 07215953 A2 19950815 JP 1994-300907 19941205
 JP 2964380 B2 19991018
 AT 178323 E 19990415 AT 1994-119182 19941205
 CA 2137626 AA 19950610 CA 1994-2137626 19941208
 FI 9405762 A 19950610 FI 1994-5762 19941208
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 CN 1109882 A 19951011 CN 1994-112918 19941208
 JP 1993-309131 19931209
 PRIORITY APPLN. INFO.:
 OTHER SOURCE(S): MARPAT 123:169638
 GI



I

Show as previous me



II

AB Title compds. [I; R1 = (protected) hydroxy; R2 = alkyl; R3 = H, OH, alkyl, alkoxy, etc.; R4 = tetrazolyl, alkoxysulfonyl, dialkoxysulfinyl, etc.; Z = alkylene] were prepd. Thus, title compd. II (R = H) was N-alkylated with ClCH2OME and the product treated successively with Me3SiI and (EtO)3P to give, after sapon., II [R = CH2P(O)(OH)2] which gave 98.8 and 100% inhibition of bovine serum denaturation and lipid peroxide formation in vitro at 10⁻⁴ and 10⁻⁵M, resp.

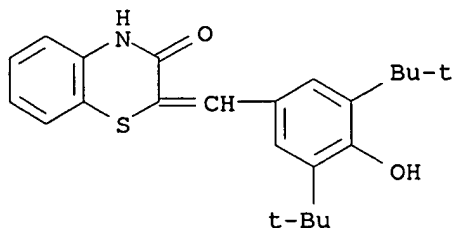
IT 156776-32-8

RL: RCT (Reactant)

(prepn. of 3-oxo-1,4-benzothiazines as protein stabilizers and lipid peroxide formation inhibitors)

RN 156776-32-8 CAPLUS

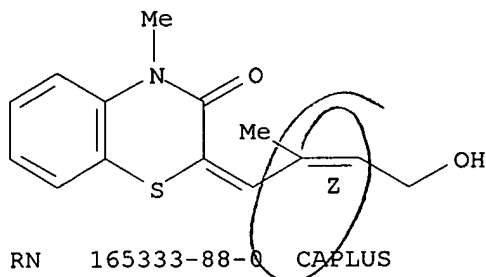
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



ANSWER 12 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1995:517831 CAPLUS

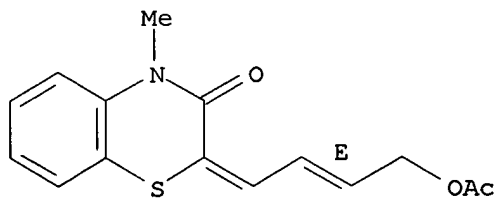
DOCUMENT NUMBER: 123:83330
 TITLE: Generation and reactions of butadienylthionium ions from 2-vinylcyclopropyl sulfoxides under Pummerer conditions
 AUTHOR(S): Kataoka, Tadashi; Matsumoto, Harutoshi; Iwama, Tetsuo;
 Ito, Taizo; Shimizu, Hiroshi
 CORPORATE SOURCE: Gifu Pharmaceutical University, Gifu, 502, Japan
 SOURCE: J. Chem. Soc., Perkin Trans. 1 (1995), (7), 737-9
 CODEN: JCPRB4; ISSN: 0300-922X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 123:83330
 AB Treatment of 2-vinylcyclopropyl sulfoxides lacking an .alpha.-hydrogen with acid anhydrides produced butadienylthionium ion intermediates to give cyclic or acyclic conjugated dienes.
 IT 165333-87-9P 165333-88-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (Pummerer reaction of vinylcyclopropyl sulfoxides)
 RN 165333-87-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-2-methyl-2-butenylidene)-4-methyl-, (? ,Z)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



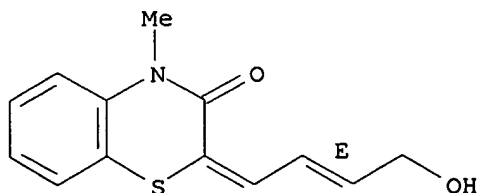
RN 165333-88-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[4-(acetyloxy)-2-butenylidene]-4-methyl-, (? ,E)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



IT 165333-84-6P 165333-85-7P 165333-86-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 165333-84-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-2-butenylidene)-4-methyl-, (? ,E)- (9CI) (CA INDEX NAME)

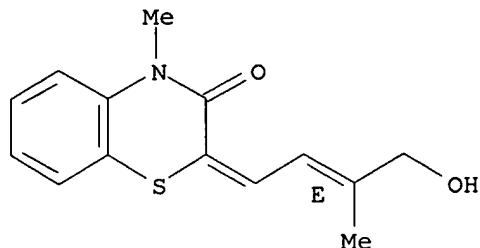
Double bond geometry as described by E or Z.



RN 165333-85-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-3-methyl-2-butenylidene)-4-methyl-, (? ,E)- (9CI) (CA INDEX NAME)

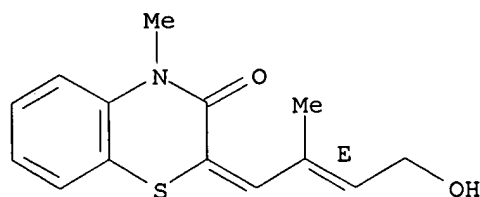
Double bond geometry as described by E or Z.



RN 165333-86-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-hydroxy-2-methyl-2-butenylidene)-4-methyl-, (? ,E)- (9CI) (CA INDEX NAME)

Double bond geometry as described by E or Z.



L14 ANSWER 13 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1994:508814 CAPLUS

DOCUMENT NUMBER: 121:108814

TITLE: Preparation of 3-oxo-1,4-benzothiazine derivatives having protein stabilization activity and inhibiting formation of lipid peroxide

INVENTOR(S): Kawashima, Yoichi; Ota, Atsutoshi; Mibu, Hiroyuki

PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

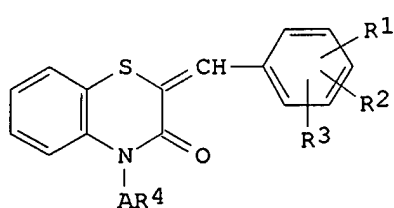
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

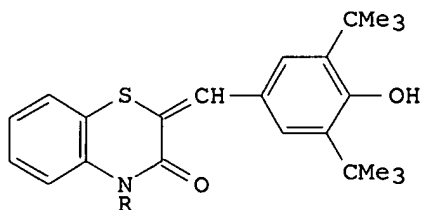
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9405647 ¹⁰⁵	A1	19940317	WO 1993-JP1190	19930825
W: CA, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 627425	A1	19941207	EP 1993-919568	19930825
EP 627425	B1	20001102		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT,
 SE
 JP 2829442 B2 19981125 JP 1993-507042 19930825
 AT 197297 E 20001115 AT 1993-919568 19930825
 US 5496817 A 19960305 US 1994-211940 19940422
 PRIORITY APPLN. INFO.: JP 1992-231669 A 19920831
 WO 1993-JP1190 W 19930825
 OTHER SOURCE(S): MARPAT 121:108814
 GI



I



II

AB Compds. represented by general formula [I; R1 = (un)protected hydroxy; R2 = lower alkyl; R3 = H, lower alkyl, (un)protected hydroxy, lower alkoxy, provided that the lower alkyl may be substituted by (un)protected hydroxy,

amino or lower alkylamino; R4 = carboxyl which may be in the form of ester

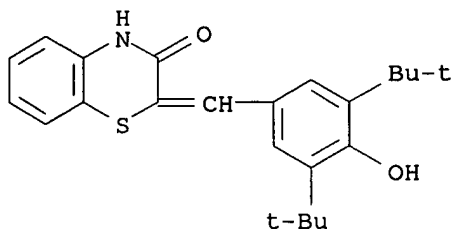
or carboxamide; A = alkylene], which are useful for the treatment of cataract, are prep'd. Thus, BuLi in hexane was added dropwise with stirring to a soln. of (hydroxybenzylidene)dihydrobenzothiazine deriv. (II; R = H) in THF under NaCl-ice cooling followed by adding dropwise a soln. of BrCH2CO2Et in THF and the resulting mixt. was stirred at room temp. overnight to give 58.1% II (R = CH2CO2Et) which was saponified with LiOH.H2O in MeOH and THF to give, after acidification with 6N HCl, 65.2% II (R = CH2CO2H) (III). III and II [R = (CH2)3CO2H] in vitro inhibited 81.2 and 99.1%, resp., formation of lipid peroxides when rat liver microsome was incubated with ADP, Fe2+, and ascorbic acid in 0.04 M Tris buffer contg. 0.09 M KCl.

IT 156776-32-8

RL: RCT (Reactant)
 (alkylation of, by Et bromoacetate)

RN 156776-32-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



IT 156776-25-9P 156776-26-0P 156776-27-1P

156776-28-2P 156776-29-3P

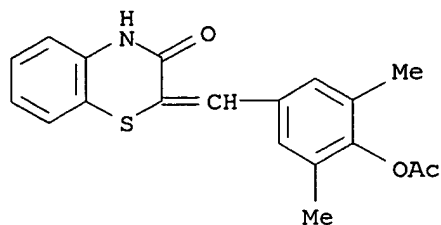
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as intermediate for benzylideneoxobenzothiazine deriv.

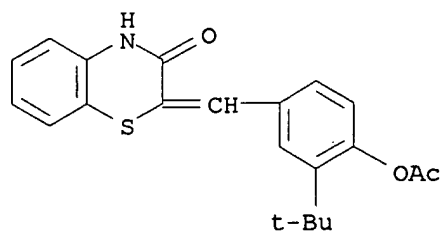
with

protein stabilization and lipid peroxide formation-inhibiting activity)

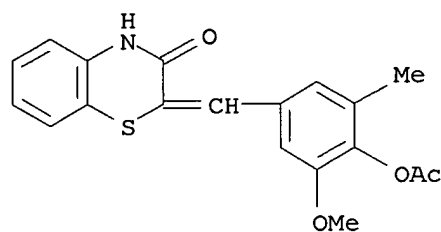
RN 156776-25-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3,5-dimethylphenyl]methylene]- (9CI) (CA INDEX NAME)



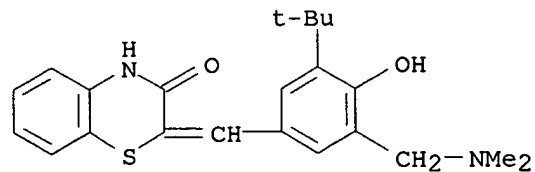
RN 156776-26-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3-(1,1-dimethylethyl)phenyl]methylene]- (9CI) (CA INDEX NAME)



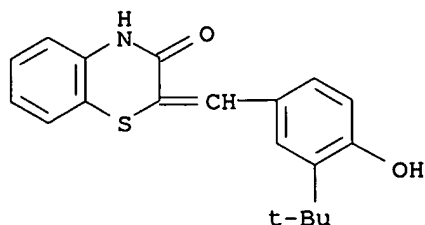
RN 156776-27-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(acetyloxy)-3-methoxy-5-methylphenyl]methylene]- (9CI) (CA INDEX NAME)



RN 156776-28-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-[(dimethylamino)methyl]-5-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



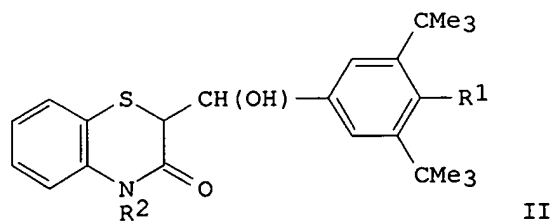
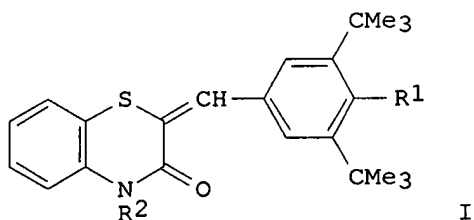
RN 156776-29-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3-(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]- (9CI) (CA INDEX NAME)



144 ANSWER 14 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1994:483354 CAPLUS
 DOCUMENT NUMBER: 121:83354
 TITLE: Preparation of 1,4-benzothiazine derivatives as
 lipoperoxide formation inhibitors
 INVENTOR(S): Kawashima, Yoichi; Oota, Atsutoshi; Mibu, Hiroyuki
 PATENT ASSIGNEE(S): Santen Pharma Co Ltd, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06073033	A2	19940315	JP 1992-231668	19920831
JP 2840800	B2	19981224		

OTHER SOURCE(S): MARPAT 121:83354
 GI

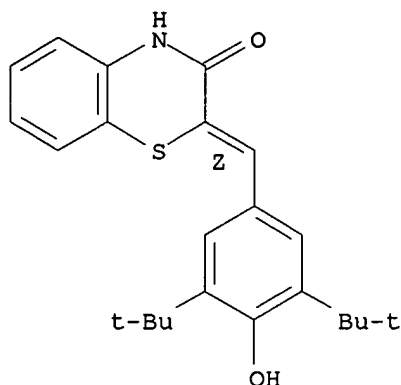


AB The title derivs. I [R1 = (protected) OH; R2 = acyl, AR3; R3 = OH, lower alkoxy, amino, lower alkylamino, tetrahydropyranyloxy; A = lower alkylene] or their salts, and their intermediates II or their salts are prepd. A soln. of (Me2CH)2NH in THF was treated dropwise with a soln. of BuLi in n-hexane at 0-10.degree., stirred for 20 min, treated dropwise with a soln. of 3,4-dihydro-4-[3-(N,N-dimethylamino)propyl]-3-oxo-2H-1,4-benzothiazine in THF under ice cooling, stirred for 30 min, then treated with a soln. of 3,5-di-tert-butyl-4-hydroxybenzaldehyde in THF at room temp. overnight to give 38.8% erythro- and 28.9% threo-II [R1 = OH, R2 = (CH2)3NMe2] (III). A mixt. of erythro-III and Et3N in CH2Cl2 was treated

with MeSO₂Cl under ice cooling to give 29.5% (Z)-I [R₁ = OH, R₂ = (CH₂)₃NMe₂] (IV). IV at 10⁻⁶ M 98.8% inhibited the formation of lipoperoxides from ascorbic acid, ADP, Fe²⁺, and rats' liver microsome in 0.04 M tris buffer.

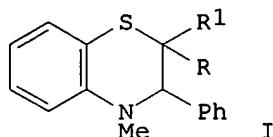
IT 126981-72-4P, (Z)-2-(3,5-Di-tert-butyl-4-hydroxybenzylidene)-3,4-dihydro-3-oxo-2H-1,4-benzothiazine
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as lipoperoxide formation inhibitor)
 RN 126981-72-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



Same as previous

1174 ANSWER 15 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1994:483237 CAPLUS
 DOCUMENT NUMBER: 121:83237
 TITLE: Stereoselective synthesis of 2-acyl-3,4-dihydro-1,4-benzothiazines
 AUTHOR(S): Florio, Saverio; Epifani, Erban; Ronzini, Ludovico; Fava, Giovanna Gasparri; Pelosi, Giorgio; Lucchini, Vittorio
 CORPORATE SOURCE: Cent. Studio Strutturistica Diffrattometrica, Univ. Parma, Parma, Italy
 SOURCE: Tetrahedron (1994), 50(17), 5037-48
 CODEN: TETRAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 121:83237
 GI



AB 2-Benzylidene-4-methyl-3-oxo-2H-1,4-benzothiazine undergoes 1,2-addn. with MeMgI and allylic magnesium halides to give 2-acyl-4-methyl-3-phenyl-3,4-dihydro-2H-1,4-benzothiazines I (R = Ac, CH₂:CHCH₂, CH₂:CMeCH₂, CH₂:CHCHMe, R₁ = H). Lithiation of I (R = Ac, R₁ = H) and subsequent reaction with MeI and PhCH₂Br leads to I (R = Ac, COEt, R₁ = Me; R = COCHMe₂, R₁ = Me; R = Ac, R₁ = CH₂Ph). In contrast, the reaction of

lithiated I (R = Ac, R1 = H) with benzaldehyde and 2,6-dichlorobenzaldehyde furnished compds. I (R = COCH:CHPh, COCH:CHC6H3Cl2-2,6, R1 = H). The crystal structure of I (R = Ac, R1 = H) was detd.

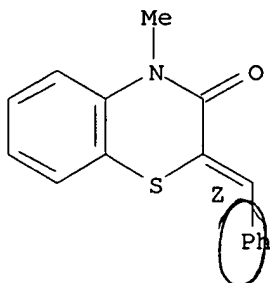
IT **55043-21-5**

RL: RCT (Reactant)
(reaction of, with Grignard reagents)

RN 55043-21-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (Z)- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.



L14 ANSWER 16 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1994:483138 CAPLUS

DOCUMENT NUMBER: 121:83138

TITLE: Synthesis of lactams with potential cardiotonic activity

AUTHOR(S): Andreani, A.; Rambaldi, M.; Locatelli, A.; Leoni, A.; Bossa, R.; Chiericozzi, M.; Galatulas, I.; Salvatore, G.

CORPORATE SOURCE: Dip. Sci. Farm., Univ. Bologna, Bologna, 40126, Italy

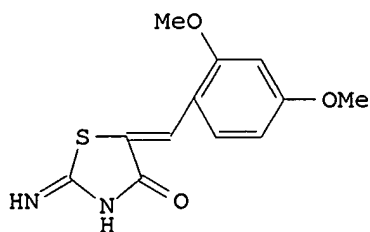
SOURCE: Eur. J. Med. Chem. (1993), 28(10), 825-9

CODEN: EJMCA5; ISSN: 0223-5234

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

AB Twelve title compds., e.g., I, were prepd. and tested in spontaneously beating guinea-pig atria. I was the most potent inotropic agent.

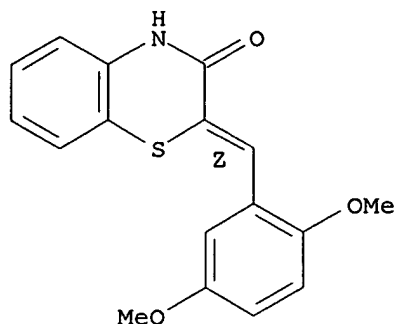
IT **154617-53-5P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and cardiotonic activity of)

RN 154617-53-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,5-dimethoxyphenyl)methylene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L14 ANSWER 17 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1993:463033 CAPLUS
 DOCUMENT NUMBER: 119:63033
 TITLE: Potent antitumor agents with low toxicity
 INVENTOR(S): Sakuta, Masayoshi; Yoneda, Toshuki; Nishimura, Michuki; Shiraishi, Tadayoshi
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Ind, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05058894	A2	19930309	JP 1991-215448	19910827

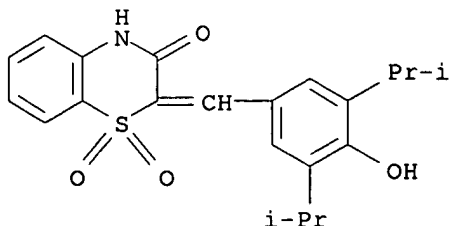
OTHER SOURCE(S): MARPAT 119:63033

AB The antitumor agents are tyrosine kinase-activating 3,5-diisopropylbenzylidene heterocyclic compds., 4-thiazolinone derivs., 3,5-diisopropyl-4-hydroxystyrene derivs., 3,5-di-tert-butyl-4-hydroxystyrene derivs., .alpha.-cyanoacrylic acid amide derivs., .alpha.-benzylidene-.gamma.-butyrolactone or .gamma.-butyrolactam derivs., styrene derivs., 4-alkoxystyrene derivs., 3-phenylthiomethylstyrene derivs., tribenzylamine derivs., .alpha.-cyanocinnamic acid amide derivs. and salts thereof. Antitumor pharmacol. data are included.

IT **108402-28-4**
 RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (neoplasm inhibitor)

RN 108402-28-4 CAPLUS

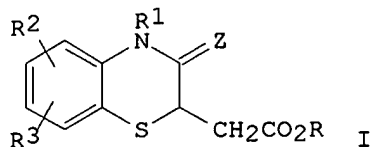
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-hydroxy-3,5-bis(1-methylethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



~~L14~~ ANSWER 18 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1992:551006 CAPLUS

DOCUMENT NUMBER: 117:151006
 TITLE: 1,4-benzothiazine-2-acetic acid derivatives,
 processes
 for production thereof and their use
 INVENTOR(S): Aotsuka, Tomoji; Hosono, Hiroshi; Kurihara, Toshio;
 Nakamura, Yoshiyuki; Matsui, Tetsuo; Kobayashi, Fujio
 PATENT ASSIGNEE(S): Sapporo Breweries, Ltd., Japan
 SOURCE: Eur. Pat. Appl., 71 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 492667	A1	19920701	EP 1991-122330	19911227
EP 492667	B1	19960417		
R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
JP 05092961	A2	19930416	JP 1991-354323	19911220
JP 2729430	B2	19980318		
CA 2058398	AA	19920628	CA 1991-2058398	19911223
AU 9190045	A1	19920709	AU 1991-90045	19911224
AU 634109	B2	19930211		
US 5252571	A	19931012	US 1991-813182	19911224
ES 2085950	T3	19960616	ES 1991-122330	19911227
PRIORITY APPLN. INFO.:			JP 1990-415316	19901227
			JP 1991-219346	19910806
OTHER SOURCE(S):			MARPAT 117:151006	
GI				



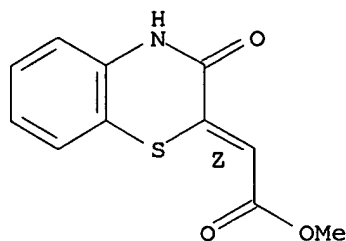
AB Benzothiazineacetic acid derivs. I (R = H, alkyl; R1 = optionally-substituted benzyl or 5-benzothiazolylmethyl group, R2, R3 = H, halo, alkyl, alkoxy, alkylthio, CF3, CF3O; Z = O, S) and the related benzothiazolinyldeneacetic acid derivs. and pharmaceutically-acceptable salts were prepd. Thus, alkylation of Et 2-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetate with 2-(bromomethyl)-5-fluorobenzothiazole in DMF afforded I (R = Et, R1 = 5-fluorobenzothiazolylmethyl, R2 = R3 = H, Z = O). The claimed compds. are aldose reductase inhibitors and are useful for the treatment of complications assocd. with diabetes.

IT **37893-72-4**
 RL: RCT (Reactant)
 (benzylation of)

RN 37893-72-4 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



~~L14~~ ANSWER 19 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1990:423934 CAPLUS

DOCUMENT NUMBER: 113:23934

TITLE: Preparation of 1,4-benzothiazin-3(4H)-one derivatives,

useful as drugs, pesticides, and their intermediates

INVENTOR(S): Muehlstaedt, Manfred; Franke, Heike; Roemisch, Ines

PATENT ASSIGNEE(S): Karl-Marx-Universitaet Leipzig, Ger. Dem. Rep.

SOURCE: Ger. (East), 4 pp.

CODEN: GEXXA8

DOCUMENT TYPE: Patent

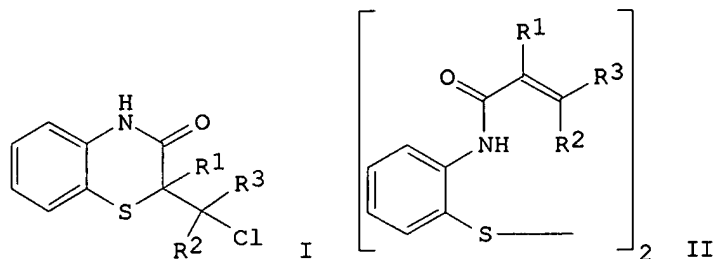
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 274220	A1	19891213	DD 1988-318270	19880725
DD 274220	B1	19930121		

GI



AB Three title derivs. I (R1 = Me, R2 = R3 = H; R1 = R2 = H, R3 = Ph, p-MeOC6H4) with the cited uses (no data) were prepd. by reaction of bis[(.alpha.,.beta.-unsatd. carbonylamino)phenyl] disulfides II with Cl(g)

in a nonpolar solvent such as CH2Cl2 at -40.degree., followed by warming to room temp. and 4 h addnl. stirring. Thus, 0.01 mol II (R1 = R2 = H,

R3 = Ph) in 100 mL CH2Cl2 was treated with a stream of Cl(g) for 25 min as above and worked up by crystn. (2 crops) to give 90.3% I (R1 = R2 = H, R3 = Ph).

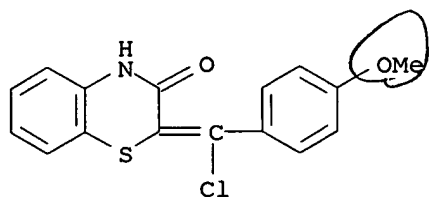
IT 122686-63-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by cyclization of bis[(cinnamoylamino)phenyl] disulfide deriv.)

RN 122686-63-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[chloro(4-methoxyphenyl)methylene]-
(9CI)

(CA INDEX NAME)



L14 ANSWER 20 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1990:216950 CAPLUS

DOCUMENT NUMBER: 112:216950

TITLE: Preparation of 3-oxo-1,4-benzothiazine derivatives
for

removal of active oxygen species and for inhibition
of

lipid peroxide formation
INVENTOR(S): Morita, Takakazu; Iso, Tadashi; Mita, Shiro;
Kawashima, Yoichi

PATENT ASSIGNEE(S): Santen Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

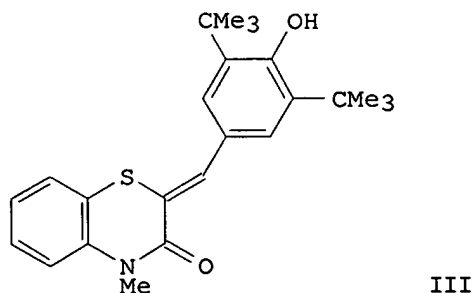
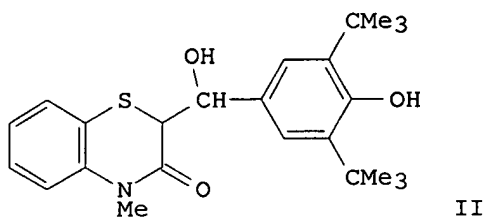
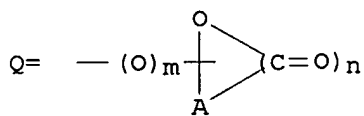
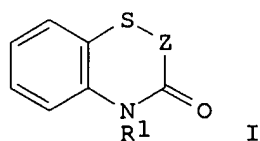
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

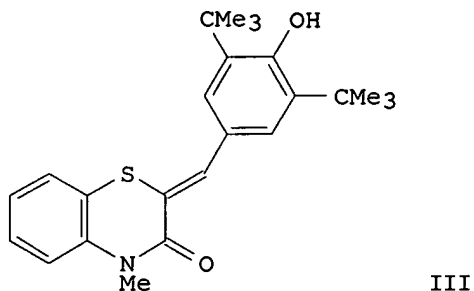
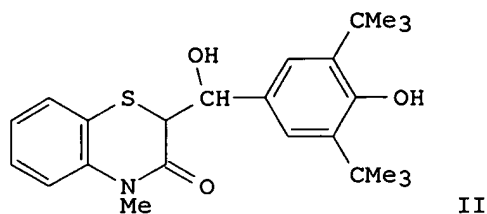
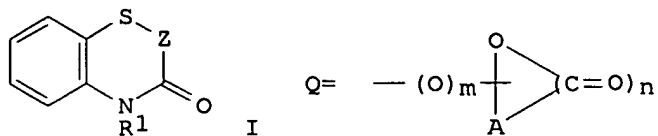
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01287077	A2	19891117	JP 1988-117683	19880514
JP 07030058	B4	19950405		

OTHER SOURCE(S): MARPAT 112:216950
GI



Hong



AB The title compds. [I; Z = CR2CR3R4R5, C:CR6R7, CR8CR9:CR10R11;
R1,R2,R8,R9

= H, alkyl; R3 = (un)substituted HO, halo, cyano, CO2H, alkoxy carbonyl, alkylamino, Q; m, n = 0, 1; A = (un)substituted alkylene or alkenylene; R4-R7,R10,R11 = H, alkoxy carbonyl, CO2H, Q, (un)substituted alkyl, alkenyl, or Ph; or R4R5, R6R7, R10R11 forming pyrrolidine or piperidine ring; or CR3R4R5 = COR5], useful for the treatment of active oxygen species (e.g. O2-.cntdot., H2O2, OH.cntdot., lO2) - related inflammation and cardiovascular disease, e.g. arteriosclerosis, are prepd. Thus, treatment of 3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazine with (iso-Pr)2NLi in THF at -70.degree. followed by 3,5-di-tert-butyl-4-hydroxybenzaldehyde and warming the mixt. to room temp. and stirring 2 h at the room temp. gave threo- and erythro-benzothiazine deriv. (II). II and a (Z)-benzothiazine deriv. (III) inhibited the formation of lipid peroxides from ascorbic acid, ADP, Fe24, and rats' liver microsome in

0.04

M tris buffer with IC50 of 0.32 and 0.22 .mu.M, resp.

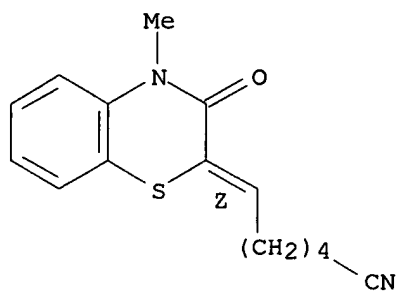
IT **126962-19-4**

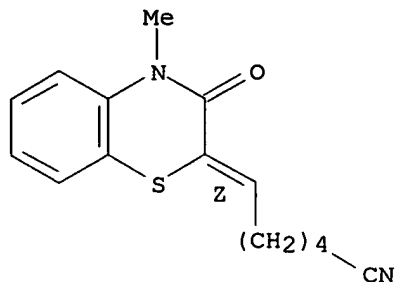
RL: RCT (Reactant)
(hydrolysis of)

RN 126962-19-4 CAPLUS

CN Hexanenitrile, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.





IT 126961-79-3P 126961-80-6P

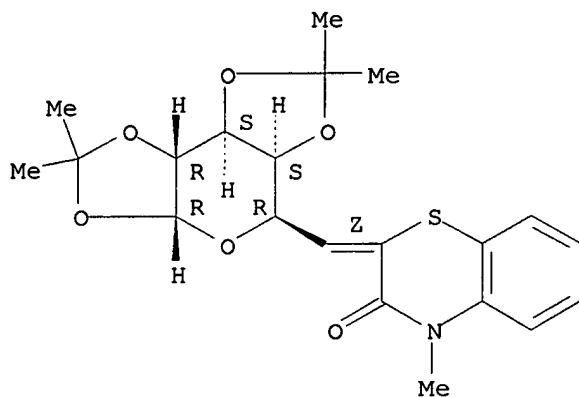
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 126961-79-3 CAPLUS

CN .alpha.-D-Galactopyranose, 6-deoxy-6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-1,2:3,4-bis-O-(1-methylethylidene)-, (6Z)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

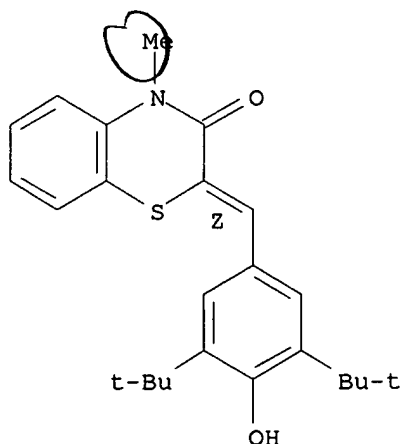
Double bond geometry as shown.



RN 126961-80-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methylene]-4-methyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



Same as previous

IT 126961-97-5P 126961-98-6P 126961-99-7P
126962-00-3P 126962-03-6P 126962-04-7P

126962-06-9P 126962-07-0P 126962-08-1P
 126962-09-2P 126962-10-5P 126962-11-6P
 126962-12-7P 126981-72-4P

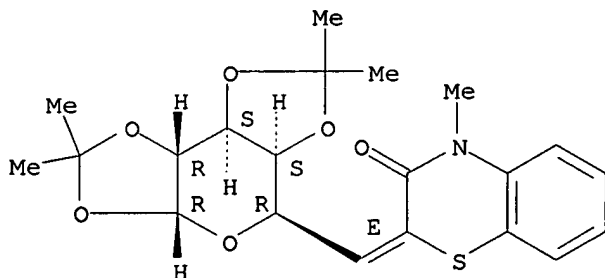
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, for removal of active oxygen species and inhibition of lipid peroxide formation)

RN 126961-97-5 CAPLUS

CN .alpha.-D-Galactopyranose, 6-deoxy-6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-1,2:3,4-bis-O-(1-methylethylidene)-, (6E)- (9CI)
 (CA INDEX NAME)

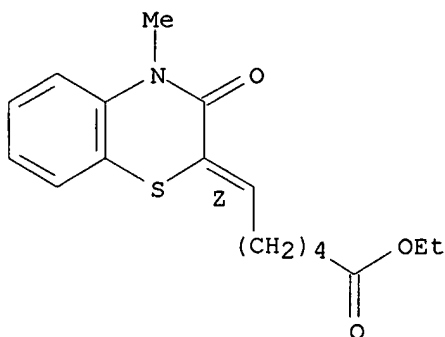
Absolute stereochemistry.
 Double bond geometry as shown.



RN 126961-98-6 CAPLUS

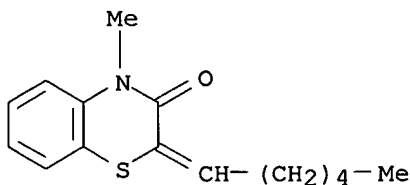
CN Hexanoic acid, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



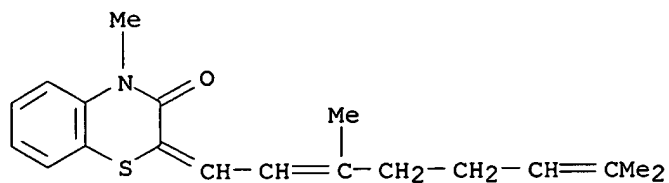
RN 126961-99-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-hexylidene-4-methyl- (9CI) (CA INDEX NAME)



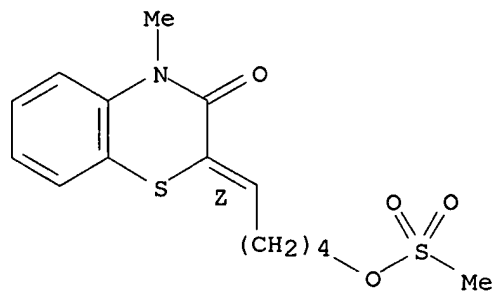
RN 126962-00-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3,7-dimethyl-2,6-octadienylidene)-4-methyl- (9CI) (CA INDEX NAME)



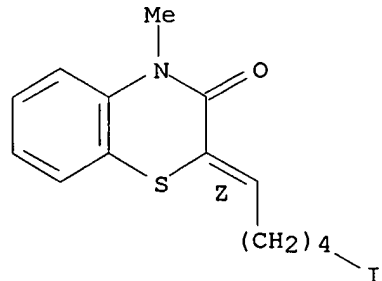
RN 126962-03-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 4-methyl-2-[5-[(methylsulfonyl)oxy]pentylidene]-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 126962-04-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(5-iodopentylidene)-4-methyl-, (Z)-
 (9CI)
 (CA INDEX NAME)

Double bond geometry as shown.

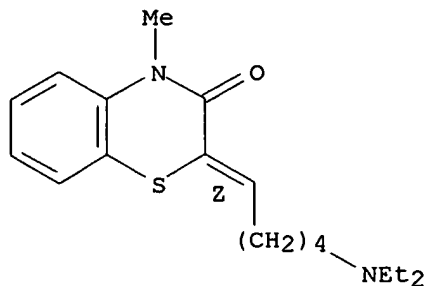


RN 126962-06-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[5-(diethylamino)pentylidene]-4-methyl-,
 (Z)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 126962-05-8
 CMF C18 H26 N2 O S
 CDES 2:Z

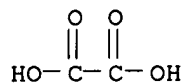
Double bond geometry as shown.



CM 2

CRN 144-62-7

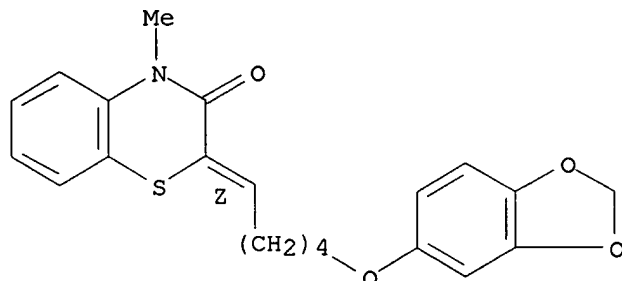
CMF C2 H2 O4



RN 126962-07-0 CAPLUS

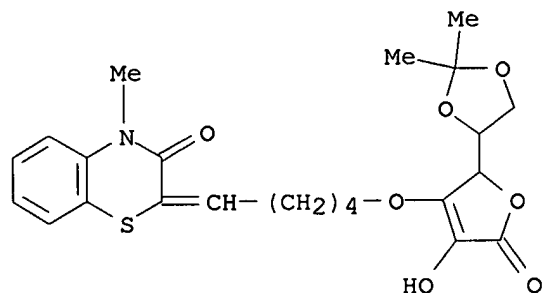
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[5-(1,3-benzodioxol-5-yloxy)pentylidene]-
4-methyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 126962-08-1 CAPLUS

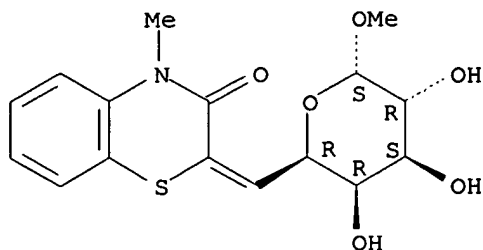
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[5-[[2-(2,2-dimethyl-1,3-dioxolan-4-yl)-
2,5-dihydro-4-hydroxy-5-oxo-3-furanyl]oxy]pentylidene]-4-methyl- (9CI)
(CA INDEX NAME)



RN 126962-09-2 CAPLUS

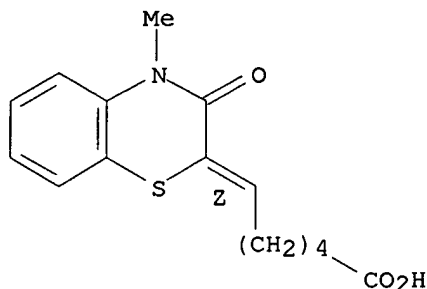
CN .alpha.-D-Galactopyranoside, methyl
6-deoxy-6-(3,4-dihydro-4-methyl-3-oxo-

Absolute stereochemistry.
Double bond geometry unknown.

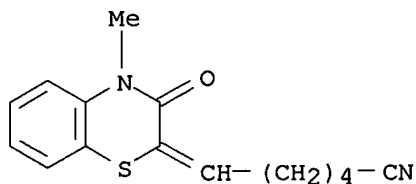


RN 126962-10-5 CAPLUS
CN Hexanoic acid, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (Z)- (9CI) (CA INDEX NAME)

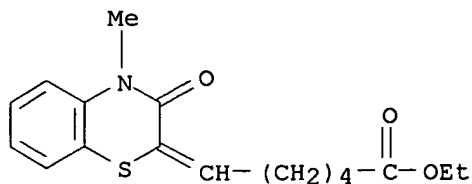
Double bond geometry as shown.



RN 126962-11-6 CAPLUS
CN Hexanenitrile, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI) (CA INDEX NAME)

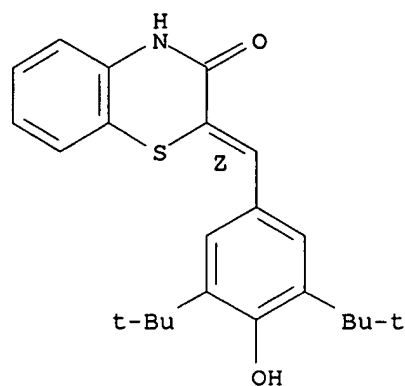


RN 126962-12-7 CAPLUS
CN Hexanoic acid, 6-(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



RN 126981-72-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[3,5-bis(1,1-dimethylethyl)-4-oxo-2-ylidene]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



114 ANSWER 21 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1989:534067 CAPLUS

DOCUMENT NUMBER: 111:134067

TITLE: A further synthetic pathway to
1,4-benzothiazin-3(4H)-

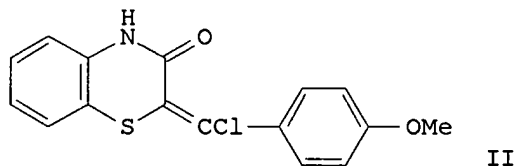
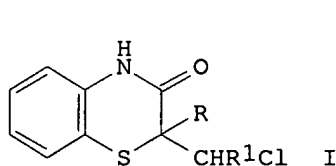
ones; chlorinolysis of disulfides derived from
.alpha.,.beta.-unsaturated carboxylic acid anilides
Muehlstaedt, Manfred; Franke, Heike
CORPORATE SOURCE: SEKT. Chem., Karl-Marx-Univ., Leipzig, DDRk-7010,
Ger.

SOURCE: Dem. Rep.
Z. Chem. (1989), 29(4), 135-6
CODEN: ZECEAL; ISSN: 0044-2402

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 111:134067
GI



AB Treatment of 2-R1CH:CRCONHC6H4S2C6H4NHCOCR:CHR1-2 (R = Me, R1 = H; R = H,
R1 = Ph, 4-MeOC6H4) with Cl gave the thiazinones I (R = Me, R1 = H; R =

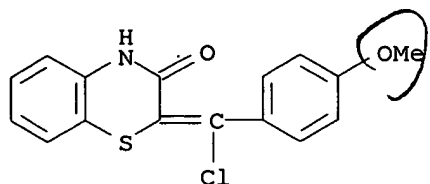
H, R1 = Ph) and II in 76-90% yield.

IT 122686-63-9P

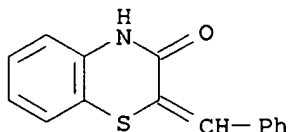
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, by chlorination of acrylaminothiophenyl disulfide)

RN 122686-63-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[chloro(4-methoxyphenyl)methylene]-
(9CI)
(CA INDEX NAME)



~~114~~ ANSWER 22 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1989:95053 CAPLUS
 DOCUMENT NUMBER: 110:95053
 TITLE: A novel synthetic route to phenyl-substituted pyridines. Synthesis of [1]benzopyrano[4,3-b]pyridines, [1]benzothiopyrano[4,3-b]pyridines and pyrido[3,2-b][1,4]benzothiazines (1-azapheothiazines) [Erratum to document cited in CA109(17):149389k]
 AUTHOR(S): Tyndall, D. V.; Al Nakib, T.; Meegan, M. J.
 CORPORATE SOURCE: Dep. Pharm. Chem., Trinity Coll. Dublin, Dublin, Ire.
 SOURCE: Tetrahedron Lett. (1988), 29(42), 5330
 CODEN: TELEAY; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A text error has been cor. The error was not reflected in the abstr. or the index entries.
 IT 24545-07-1
 RL: RCT (Reactant)
 (cyclocondensation reaction of, with malononitrile (Erratum))
 RN 24545-07-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



~~114~~ ANSWER 23 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1989:57296 CAPLUS
 DOCUMENT NUMBER: 110:57296
 TITLE: Preparation of hydroxystyrene derivatives as pharmaceuticals
 INVENTOR(S): Shiraishi, Tadayoshi; Kameyama, Keiji; Domoto, Takeshi; Imai, Naohiro; Shimada, Yoshio; Ariki, Yutaka; Hosoe, Kazunori; Kawatsu, Masaji; Katsumi, Ikuo; et al.
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 60 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8807035	A1	19880922	WO 1988-JP254	19880310
W: JP, US				
RW: BE, CH, DE, FR, GB, IT, NL, SE				

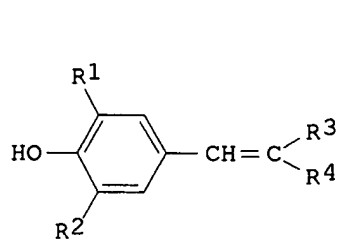
EP 304493	A1	19890301	EP 1988-902540	19880310
EP 304493	B1	19920902		
R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
JP 2539504	B2	19961002	JP 1988-502469	19880310
CA 1315783	A1	19930406	CA 1988-568136	19880530
US 4971996	A	19901120	US 1988-283992	19881110
US 5089516	A	19920218	US 1990-584683	19900919
US 5057538	A	19911015	US 1990-587147	19900924
US 5202341	A	19930413	US 1991-735581	19910725

PRIORITY APPLN. INFO.:

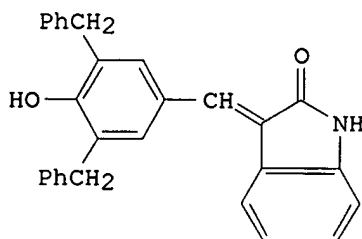
	JP 1987-55965	19870311
	JP 1987-55966	19870311
	JP 1987-57256	19870312
	WO 1988-JP254	19880310
	US 1988-283992	19881110
	US 1990-584683	19900919

OTHER SOURCE(S): MARPAT 110:57296

GI



I



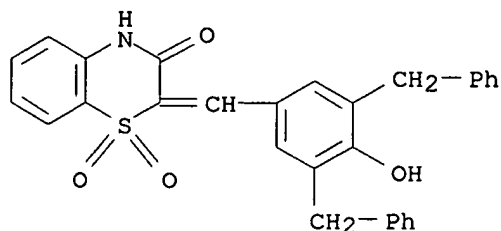
II

AB The title compds. [I; R1 = OH, alkoxy, PhCH2O; R2 = PhCH2, etc.; or R1, R2 = Ph, PhCH2, PhCH2CH2, C1-3 alkyl; R3 = cyano; R4 = carbamoyl (R1, R2 .noteq. alkyl); R3R4 = 5- or 6-membered cyclic amide], useful as pharmaceuticals, are prepd. 3,5-Dibenzyl-4-hydroxybenzaldehyde and oxindole were dissolved in C6H6 and refluxed 5 h in the presence of piperidine and AcOH to give 29% (indolinylidenemethyl)phenol II. II showed 78% inhibition (at 10 .mu.M) of guinea pig 5-lipoxygenase and 74% inhibition (at 1 .mu.M) of tyrosine kinase incubated with human cancer-cell stock A-431 as a proliferative acceptor. II had an acute toxicity LD50 of >500 mg/kg.

IT **118562-99-5P**
 RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. of, as pharmaceutical)

RN 118562-99-5 CAPLUS

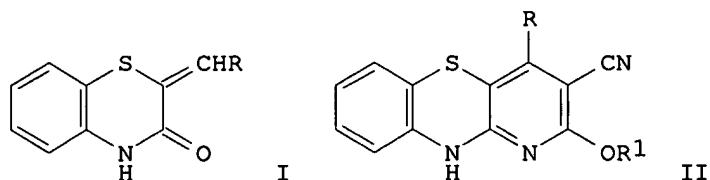
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-hydroxy-3,5-bis(phenylmethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



Same as previous.

L14 ANSWER 24 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1989:38945 CAPLUS

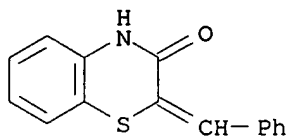
DOCUMENT NUMBER: 110:38945
 TITLE: A new synthesis of pyrido[3,2-b][1,4]benzothiazines
 AUTHOR(S): McCarthy, Eileen T.; Tyndall, D. Vivian; Meegan, Mary J.
 CORPORATE SOURCE: Dep. Pharm. Chem., Trinity Coll. Dublin, Dublin, Ire.
 SOURCE: J. Chem. Res., Synop. (1988), (5), 145
 CODEN: JRPSDC; ISSN: 0308-2342
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 110:38945
 GI



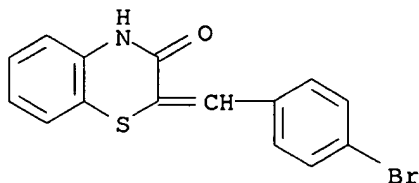
AB Cyclization of benzylidenebenzothiazinones I (e.g., R = C₆H₄Cl-p, C₆H₄OMe-p, 1-naphthyl, C₆H₄Ph-p) with NCCH₂CN in MeOH contg. NaOH gave the title compds. II (R₁ = Me). In EtOH contg. NaOH, I and NCCH₂CN gave II (R₁ = Et). A mechanism is proposed.

IT 24545-07-1P 54874-84-9P 54874-85-0P
 95476-30-5P 95476-37-2P 101884-21-3P
 118265-38-6P 118265-39-7P 118265-40-0P
 118265-41-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and cyclization of, with malononitrile, pyridobenzothiazine from)

RN 24545-07-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)

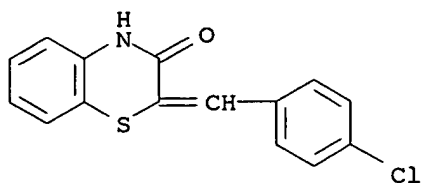


RN 54874-84-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-bromophenyl)methylene]- (9CI) (CA INDEX NAME)



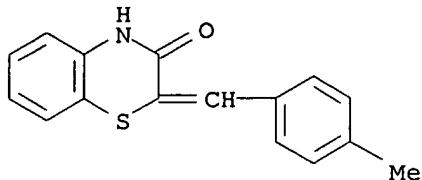
RN 54874-85-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA INDEX NAME)



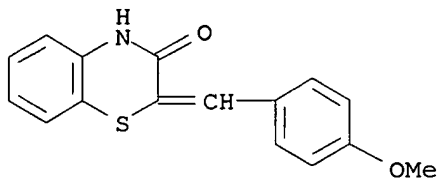
RN 95476-30-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)methylene]- (9CI) (CA INDEX NAME)



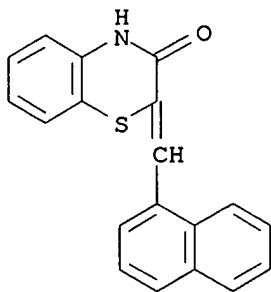
RN 95476-37-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



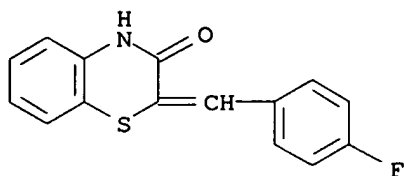
RN 101884-21-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-naphthalenylmethylene)- (9CI) (CA INDEX NAME)

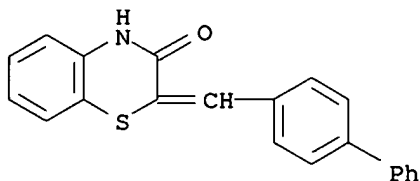


RN 118265-38-6 CAPLUS

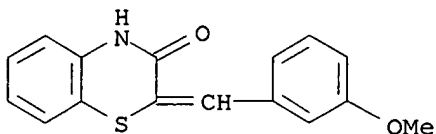
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-fluorophenyl)methylene]- (9CI) (CA INDEX NAME)



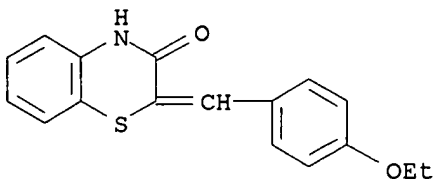
RN 118265-39-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-([1,1'-biphenyl]-4-ylmethylene)- (9CI)
 (CA INDEX NAME)



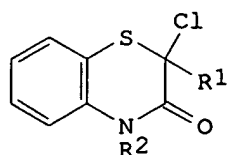
RN 118265-40-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3-methoxyphenyl)methylene]- (9CI) (CA
 INDEX NAME)



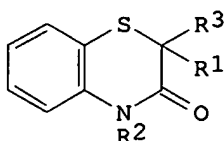
RN 118265-41-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-ethoxyphenyl)methylene]- (9CI) (CA
 INDEX NAME)



L14 ANSWER 25 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1989:8144 CAPLUS
 DOCUMENT NUMBER: 110:8144
 TITLE: A novel, convenient synthesis of 2-aryl-3-oxo-3,4-dihydro-2H-1,4-benzothiazines
 AUTHOR(S): Fujita, Masanobu; Ota, Atsutoshi; Ito, Susumu; Yamamoto, Koji; Kawashima, Yoichi
 CORPORATE SOURCE: Res. Lab., Santen Pharm. Co., Ltd., Osaka, Japan
 SOURCE: Synthesis (1988), (8), 599-604
 CODEN: SYNTBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 110:8144
 GI



I



II

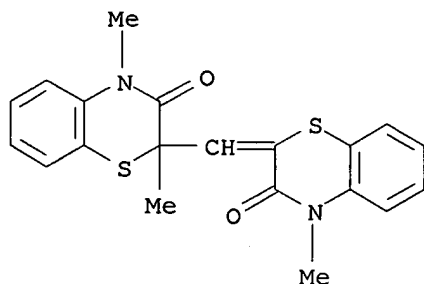
AB Chlorodihydrobenzothiazinones I [R1 = H, Me, CHMe2; R2 = H, Me, (CH2)3NMe2, CH2CO2H] were treated with alkoxybenzenes, phenols, C6H6, and PhCl and AlCl3 to give arylated products II [R3 = anisyl, (MeO)2C6H3, Ph, ClC6H4, HOC6H4, HO(MeO)C6H3, HO(O2N)C6H3].

IT 117838-98-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 117838-98-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-2,4-dimethyl- (9CI) (CA INDEX NAME)



114 ANSWER 26 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1988:549389 CAPLUS

DOCUMENT NUMBER: 109:149389

TITLE: A novel synthetic route to phenyl-substituted pyridines. Synthesis of [1]benzopyrano[4,3-b]pyridines, [1]benzothiopyrano[4,3-b]pyridines and pyrido[3,2-b][1,4]benzothiazines (1-azapheothiazines)

AUTHOR(S): Tyndall, D. V.; Nakib, T. Al; Meegan, M. J.

CORPORATE SOURCE: Dep. Pharm. Chem., Trinity Coll. Dublin, Dublin, Ire.

SOURCE: Tetrahedron Lett. (1988), 29(22), 2703-6

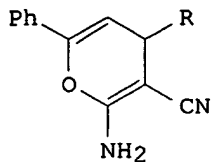
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

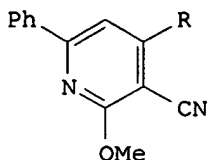
LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:149389

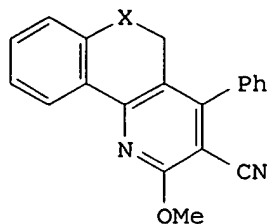
GI



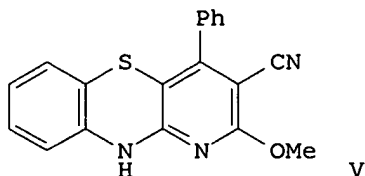
II



III



IV



V

AB Reaction of PhCOCH:CHR (I; $\text{R} = \text{Ph}$, $\text{CH} = \text{CHPh}$, 1-naphthyl) with $\text{CH}_2(\text{CN})_2$ in

the presence of piperidine gave pyrancarbonitriles II, whereas the reaction of I with $\text{CH}_2(\text{CN})_2$ in the presence of NaOH in MeOH gave pyridinecarbonitriles III. This reaction was applied to a general synthesis of title compds. IV ($\text{X} = \text{O}$, S) and V from

.alpha.,.beta.-unsatd.

ketones and $\text{CH}_2(\text{CN})_2$.

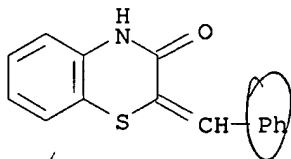
IT **24545-07-1**

RL: RCT (Reactant)

(cyclocondensation reaction of, with malononitrile)

RN 24545-07-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



DI4 ANSWER 27 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1987:213918 CAPLUS

DOCUMENT NUMBER: 106:213918

TITLE: Diisopropylbenzylidene-substituted heterocycles

INVENTOR(S): Imai, Naohiro; Shiraishi, Tadayoshi; Katsumi, Ikuro; Yamashita, Katsuji; Arik, Yutaka; Yamashita,

Toshiaki

PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

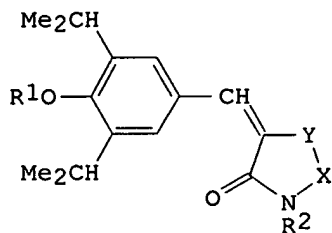
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

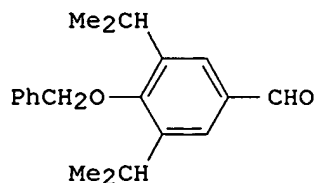
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62029570	A2	19870207	JP 1985-167999	19850729
JP 05074587	B4	19931018		

GI



I



II

AB The title compds. I [R1 = H, PhCH2; R2 = H, R3CO (R3 = H, C1-3 alkyl), Ph;

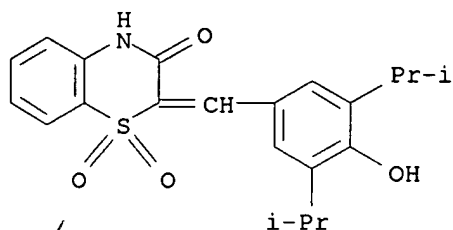
X = CO, CS, C:NH, CHR4 (R4 = H, C1-3 alkyl), NPh; Y = CH2, CH2SO2, CO, C(O)NH, NR5 (R5 = H, C1-3 alkyl), NHC(O), O, S; XY = CR6:N (R6 = H, C1-3 alkyl, morpholino, Ph), N:CR6, o-phenylene, o-C6H4SO2], useful as antiallergics and tyrosine kinase inhibitors, are prepd. A mixt. of 3,5-(Me2CH)2C6H3CHO, hydantoin, ethanolamine, EtOH, and H2O was refluxed to give I (R1 = R2 = H, X = CO, Y = NH) which at 100 .mu.M showed 100% control of free slow-reacting substances of anaphylaxis or their biosynthesis in guinea pigs.

IT 108402-28-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as antiallergic agent and tyrosine kinase inhibitor)

RN 108402-28-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-hydroxy-3,5-bis(1-methylethyl)phenyl]methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



same as previous

LI4 ANSWER 28 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1987:138459 CAPLUS

DOCUMENT NUMBER: 106:138459

TITLE: Benzothiazinones

INVENTOR(S): Otsuka, Yozo; Naito, Kenji; Morita, Tadashi

PATENT ASSIGNEE(S): Tobishi Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

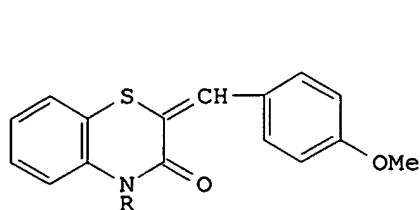
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

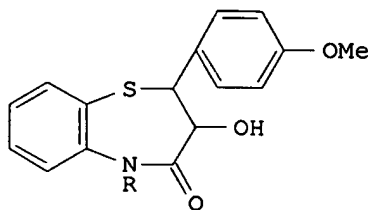
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61229874	A2	19861014	JP 1985-69106	19850403
JP 05033705	B4	19930520		

GI



I



II

AB Title compds. I [R = H, lower alkyl, 2-(dimethylamino)ethyl], useful as intermediates for the vasodilator diltiazem, were prepd. by treating cis-1-benzothiazepinones II with org. sulfonyl chlorides. Thus, treating 6.04 g 1-cis-II (R = H) with 5.7 g p-MeC₆H₄SO₂Cl in pyridine gave 3.75 g

I

(R = H).

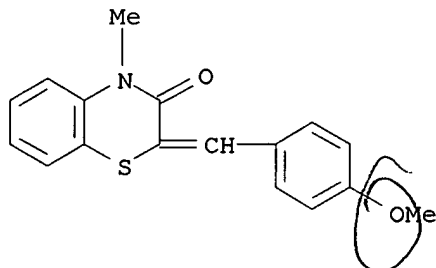
IT 87833-81-6P 95476-37-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as intermediate for vasodilator diltiazem)

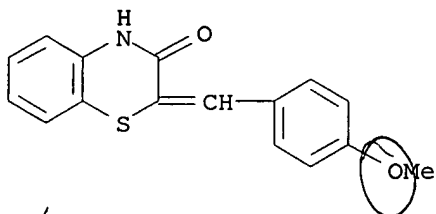
RN 87833-81-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)



RN 95476-37-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



proviso

LI4 ANSWER 29 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1987:102191 CAPLUS

DOCUMENT NUMBER: 106:102191

TITLE: The synthesis of (3-oxo-3,4-dihydro-2H-1,4-benzothiazin-2-yl)acetic acid and (3-oxo-3,4-dihydro-2H-1,4-benzoxazin-2-yl)acetic acid derivatives

AUTHOR(S): Teitei, Tsutomu

CORPORATE SOURCE: Div. Plant Ind., CSIRO, Canberra, 2601, Australia

SOURCE: Aust. J. Chem. (1986), 39(3), 503-10

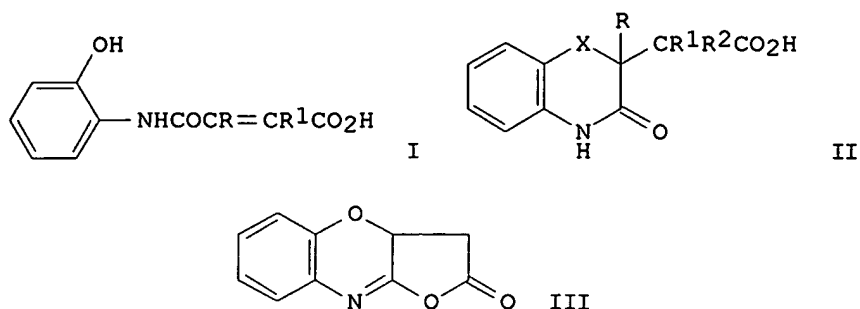
CODEN: AJCHAS; ISSN: 0004-9425

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 106:102191

GI



AB Reaction of o-aminophenol with various maleic anhydrides gave first 2-hydroxymaleic acids I (R, R1 = e.g. H, Cl), which were then converted into the benzoxazinones II (X = O; R1 = H; RR2 = bond) under mild basic conditions; similarly the reaction of o-aminothiophenol with the maleic anhydrides gave the benzothiazinones II in one step. The facile cycloaddn. and esterification of 2-hydroxymaleic acids to form the benzoxazines obsd. in this work is discussed in terms of the formation of the isomaleimide type intermediate III. None of the prepd. compds. showed significant activity on NADP-malic enzyme in the C4 photosynthetic pathway.

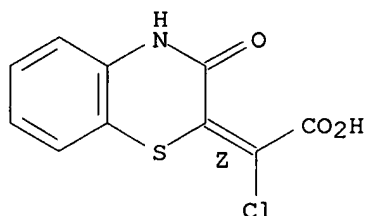
IT **106660-05-3P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and esterification of)

RN 106660-05-3 CAPLUS

CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (2Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



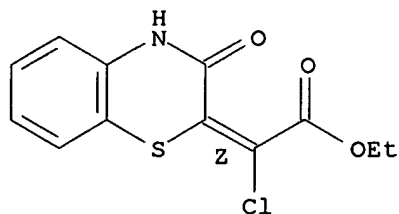
IT **106660-06-4P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and ethylation of)

RN 106660-06-4 CAPLUS

CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



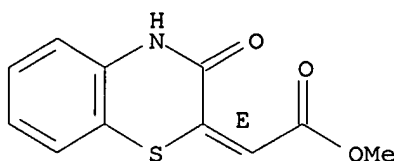
IT 37893-32-6P 106660-02-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 37893-32-6 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

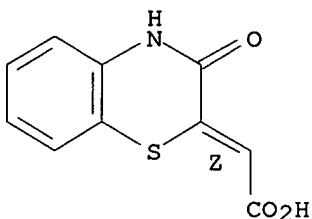
Double bond geometry as shown.



RN 106660-02-0 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



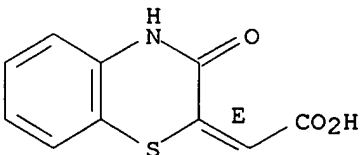
IT 106660-01-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., isomerization and methylation of)

RN 106660-01-9 CAPLUS

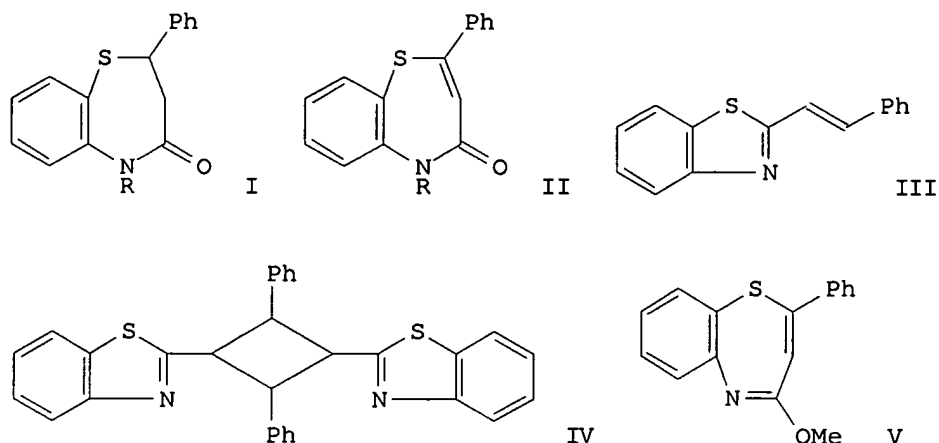
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, hydrochloride, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



HCl

~~14~~ ANSWER 30 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1986:571588 CAPLUS
 DOCUMENT NUMBER: 105:171588
 TITLE: Rearrangements and complex eliminations with
 1,5-benzothiazepin-4-ones
 AUTHOR(S): Kaupp, Gerd; Gruendken, E.; Matthies, D.
 CORPORATE SOURCE: Fachbereich Chem. - Org. Chem. I, Univ. Oldenburg,
 Oldenburg, D-2900, Fed. Rep. Ger.
 SOURCE: Chem. Ber. (1986), 119(10), 3109-20
 CODEN: CHBEAM; ISSN: 0009-2940
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI



AB New or rarely documented rearrangements and complex eliminations occur in the partially proton catalyzed pyrolysis of the benzothiazepinones I (R = H, Me, Ac) and II (R = H, Me, Ac). The reactions are classified and mechanistically discussed. The products and byproducts are spectrally characterized and their configurations are assigned based on their photolysis. III photodimerizes in soln. and in the cryst. state to give IV. V is remarkably insensitive to hydrolysis.

IT 55043-20-4P 55043-21-5P 104505-72-8P
 104505-73-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

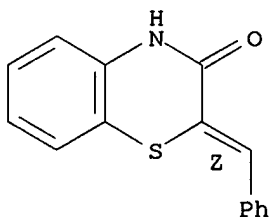
RN 55043-20-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)-, (Z)- (9CI) (CA

INDEX

NAME)

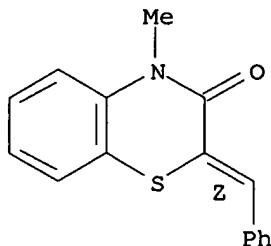
Double bond geometry as shown.



RN 55043-21-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (Z)- (9CI)
(CA INDEX NAME)

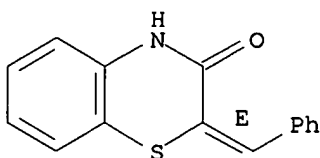
Double bond geometry as shown.



RN 104505-72-8 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)-, (E)- (9CI) (CA
INDEX
NAME)

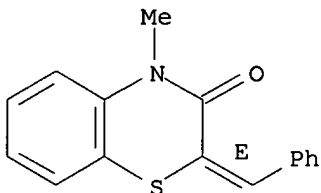
Double bond geometry as shown.



RN 104505-73-9 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (E)- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

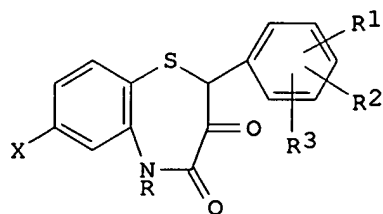


144 ANSWER 31 OF 74 CAPLUS COPYRIGHT 2001 ACS

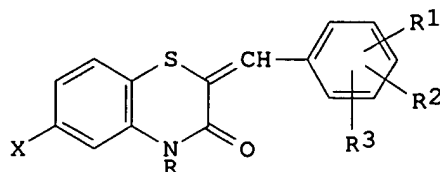
ACCESSION NUMBER: 1985:578283 CAPLUS
DOCUMENT NUMBER: 103:178283
TITLE: 1,5-Benzothiazepine derivatives
PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60072876	A2	19850424	JP 1983-181086	19830928

GI



I



II

AB Title compds. I [R = alkyl, (alkylamino)alkyl, morpholinoalkyl; R1-R3 = H,

halo, OH, alkyl, alkoxy; X = halo] or their salts, useful as analgesics and antipyretics, were prepd. by treating II with Me3SiX (X = halo), H2O2,

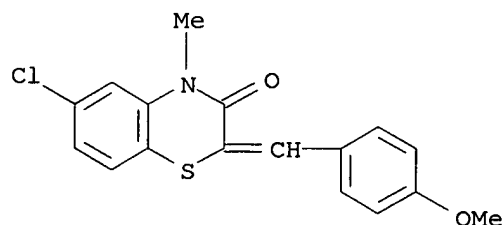
and H2O. Thus, 59.6 g 4,2-Cl(MeNH)C6H3SH, prepd. by N-methylation of 5-chloro-2-benzothiazolinone and subsequent hydrolysis, was treated with 34.0 g ClCH2CO2H to give 68.7 g 4-methyl-6-chloro-2H-1,4-benzothiazin-3(4H)-one, which (8.0 g) was refluxed with 5.1 g p-anisaldehyde and NaOMe gave 4.2 g II (R = Me; R1 = 4-OMe; R2 = R3 = H; X = Cl), which (1 g) was mixed with Me3SiCl and then treated with aq. H2O2 to give 650 mg I. The title compds. were 0.2-3 times as effective as pentazocine.

IT 95476-11-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and ring expansion of, benzothiazepinediones from)

RN 95476-11-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)



L14 ANSWER 32 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1985:542032 CAPLUS

DOCUMENT NUMBER: 103:142032

TITLE: 1,5-Benzothiazepine derivatives

PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

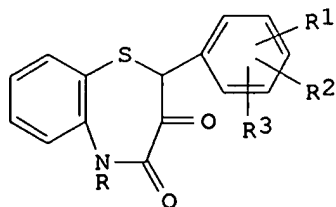
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

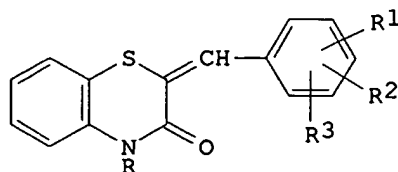
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60072875	A2	19850424	JP 1983-181085	19830928

GI



I



II

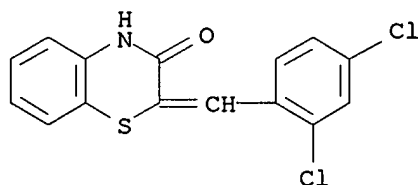
AB Title compds. I [R = alkyl, (alkylamino)alkyl, morpholinoalkyl; R1-R3 = H, halo, OH, alkyl, alkoxy] or their salts, useful as analgesic antipyretics, were prepd. by treating II with Me3SiX (X = halo), H2O2, and H2O. Thus, treating 20 g 2H-1,4-benzothiazin-3(4H)-one with 33.4 g p-PhCH2OC6H4CHO and NaOMe gave 21.5 g II (R-R2 = H; R3 = OCH2Ph-4), which (4g) was treated with 3.1 g N-(2-chloroethyl)morpholine to give 1.3 g II (R = 2-morpholinoethyl, R1 = R2 = H, R3 = 4-OH), which (1 g) was mixed with Me3SiCl and treated with aq. H2O2 to give the corresponding 0.4 g I.HCl. The analgesic activity of I was comparable to that of pentazocine.

IT **54874-55-4P 95476-30-5P 95476-31-6P 98448-63-6P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and alkylation of)

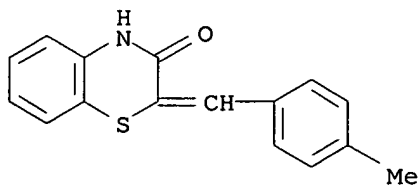
RN 54874-55-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,4-dichlorophenyl)methylene]- (9CI) (CA INDEX NAME)



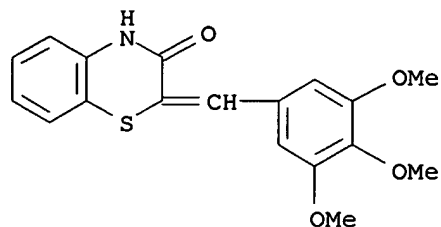
RN 95476-30-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)methylene]- (9CI) (CA INDEX NAME)

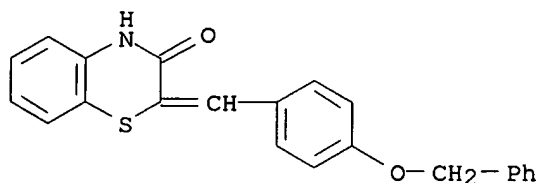


RN 95476-31-6 CAPLUS

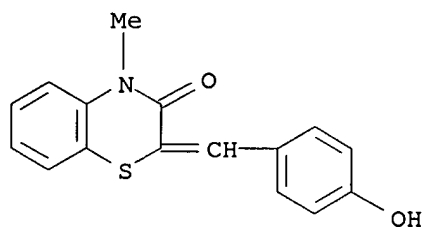
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4,5-trimethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



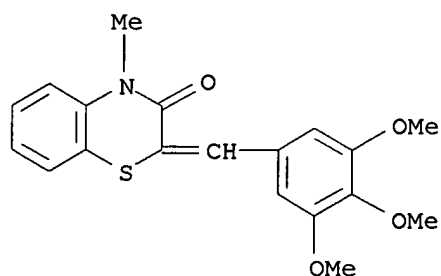
RN 98448-63-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-(phenylmethoxy)phenyl]methylene]-
 (9CI) (CA INDEX NAME)



IT 98448-65-8P 98448-66-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and ring expansion of, benzothiazepinediones from)
 RN 98448-65-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-hydroxyphenyl)methylene]-4-methyl-
 (9CI) (CA INDEX NAME)



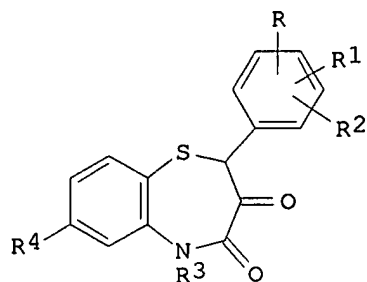
RN 98448-66-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(3,4,5-trimethoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



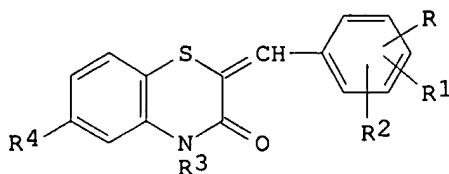
L14 ANSWER 33 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1985:132086 CAPLUS
 DOCUMENT NUMBER: 102:132086
 TITLE: 1,5-Benzothiazepine derivatives

INVENTOR(S): Maki, Yoshifumi; Sako, Magoichi; Mitsumori, Naomichi;
 Maeda, Sadayuki; Takaya, Masahiro
 PATENT ASSIGNEE(S): Hamari Chemicals, Ltd., Japan
 SOURCE: U.S., 7 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4490292 <i>195</i>	A	19841225	US 1983-540000	19831007
EP 137083	A1	19850417	EP 1983-306147	19831011
EP 137083	B1	19870624		
R: CH, DE, FR, GB, LI				
CA 1225989	A1	19870825	CA 1983-438685	19831011
PRIORITY APPLN. INFO.: GI			US 1983-540000	19831007



I



II

AB 1,5-Benzothiazepine-3,4(5H)-diones I (R-R2 = H, halogen, alkyl, alkoxy, OH; R3 = CHCH:CH2, alkyl, alkoxyalkyl, hydroxyalkyl, haloalkyl, alkylaminoalkyl, morpholinoalkyl, R4 = H, halogen) were prepd. by ring expansion of 2H-1,4-benzothiazin-3(4H)-ones II with trimethylhalosilane, H2O2, and water. Thus, 2H-1,4-benzothiazin-3(4H)-one was condensed with 2,4-Cl2C6H3CHO to give II (R = 2-Cl, R1 = 4-Cl, R2-R4 = H) which was alkylated with Me2NCH2CH2Cl to give II-HCl (R = 2-Cl, R1 = 4-Cl, R2 = R4

=

H, R3 = Me2NCH2CH2). The latter compd. (1 g) in 10 mL CHCl3 at <0.degree.

=

was treated with 2 mL Me3SiCl and 0.29 g 30% H2O2, stirred for 30 min, 1 mL water added, and the whole stirred 1 h at room temp. to give 1 g I (R

=

2-Cl, R1 = 4-Cl, R2 = R4 = H, R3 = Me2NCH2CH2). I (R = R2 = R4 = H, R1 = 4-MeO, R3 = Me2NCH2CH2) at 60 mg/kg i.p. in mice gave 100% antagonism of the writhing syndrome induced by i.p. injection of 10 mL/kg 0.7% HOAc-saline soln. and, at 60 mg/kg i.p., decreased rectal temp. 1.1.degree. in rats with yeast-induced pyresis.

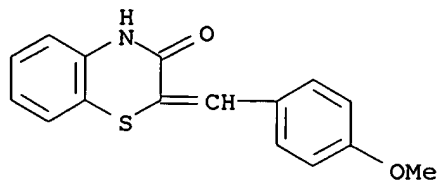
IT 95476-37-2

RL: RCT (Reactant)

(alkylation of, with (chloroethyl)morpholine)

RN 95476-37-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)

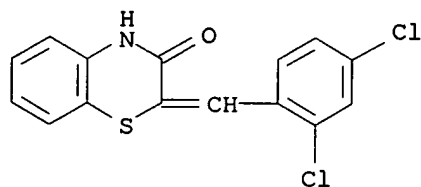


IT 54874-55-4P 54874-85-0P 95476-30-5P
95476-31-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and alkylation of, with (chloroethyl)morpholine)

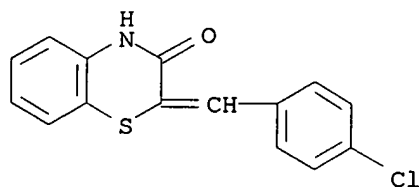
RN 54874-55-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,4-dichlorophenyl)methylene]- (9CI)
(CA INDEX NAME)



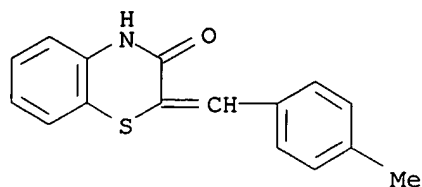
RN 54874-85-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA
INDEX NAME)



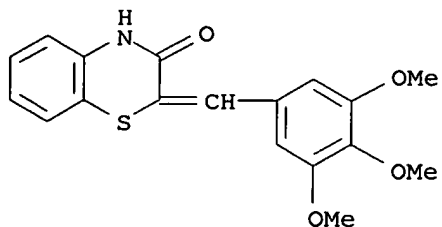
RN 95476-30-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methylphenyl)methylene]- (9CI) (CA
INDEX NAME)



RN 95476-31-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(3,4,5-trimethoxyphenyl)methylene]-
(9CI) (CA INDEX NAME)

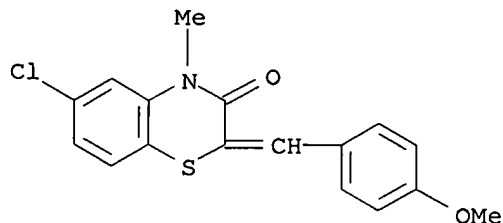


IT 95476-11-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and ring enlargement of, benzothiazepine from)

RN 95476-11-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

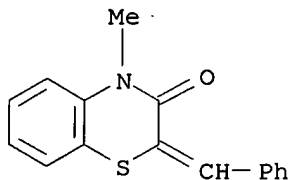


IT 30752-17-1 85809-67-2

RL: RCT (Reactant)
(ring enlargement of, benzothiazepine from)

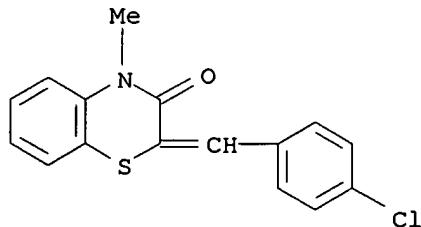
RN 30752-17-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



RN 85809-67-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

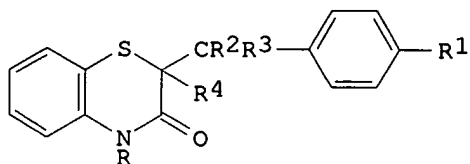


114 ANSWER 34 OF 74 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1985:45965 CAPLUS
DOCUMENT NUMBER: 102:45965

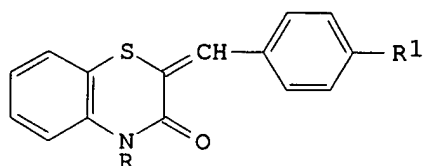
TITLE: 1,4-Benzothiazines
 PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59184170	A2	19841019	JP 1983-58457	19830401
JP 05059113	B4	19930830		

GI



I



II

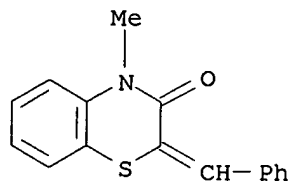
AB The title compds. I (R = substituted alkyl; R1 = H, halo, alkoxy; R2 = H, Cl, OH, acyloxy; R3 = H, or R2R3 = O; R4 = OH, acyloxy), useful as analgesics and antipyretics (no data) were prepd. from the benzylidene derivs. II. Thus, heating a mixt. of 2 g II (R = Me, R1 = H), 3.3 g Pb(OAc)4, and benzene at 60.degree. for 3 h gave 2.0 g I (R = Me, R1 = R3 = H, R2 = R4 = AcO).

IT 30752-17-1

RL: RCT (Reactant)
 (acetoxylation of)

RN 30752-17-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



114 ANSWER 35 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1984:139162 CAPLUS

DOCUMENT NUMBER: 100:139162

TITLE: 1,5-Benzothiazepine derivatives

PATENT ASSIGNEE(S): Hamari Yakuhin Kogyo Co., Ltd., Japan

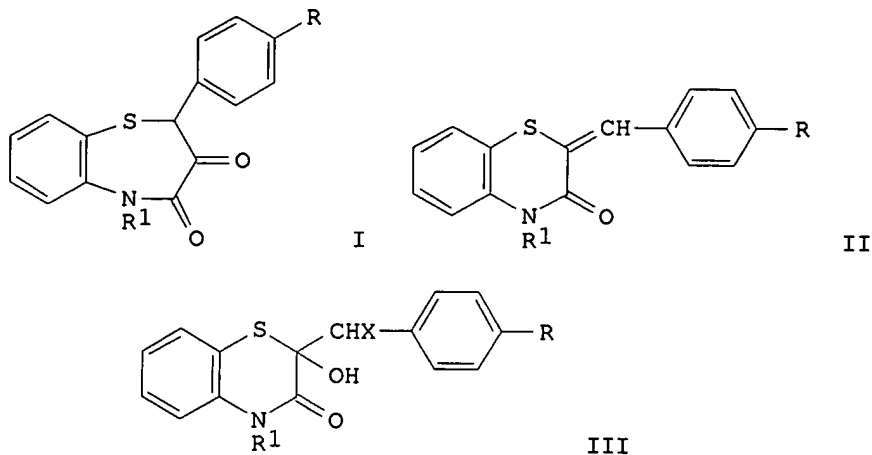
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GI	JP 58206577	A2	19831201	JP 1982-89339	19820525



AB 1,5-Benzothiazepine derivs. I [R, R1 = H, Me; Cl, Me; MeO, MeOCH2; MeO, Me2NCH2CH2 (free and HCl salt); MeO, HO; MeO, ClCH2CH2], useful as coronary vasodilators, antiarrhythmics, analgesics, and blood platelet aggregation inhibitors (no data), were prepd. by, e.g., treatment of II with H2O2, H2O, and Me3SiX (X = halo) followed by ring expansion of the resulting III. Thus, 1.43 mL Me3SiCl was added to a mixt. of 1 g II (R = H, R1 = Me) and 0.58 mL 30% aq. H2O2 in THF during 15 min at -20.degree. to -10.degree. and the whole stirred 4 h with ice cooling and then 2 h at room temp. to give 0.96 g III (R = H, R1 = Me, X = Cl), which (1 g) was treated with 1.04 g Ag2CO3 in Me2CO 30 min with ice cooling to give 0.73

g

I (R = H, R1 = Me).

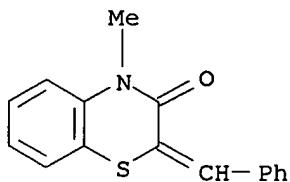
IT 30752-17-1

RL: RCT (Reactant)

(chlorination-hydroxylation of)

RN 30752-17-1 CAPLUS

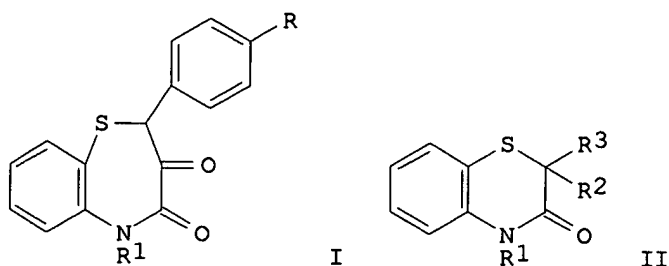
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



ANSWER 36 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1984:85732 CAPLUS
 DOCUMENT NUMBER: 100:85732

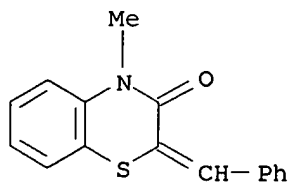
TITLE: 1,5-Benzothiazepines
 PATENT ASSIGNEE(S): Hamari Yokuhin Kogyo Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GI	JP 58180476	A2	19831021	JP 1982-62918	19820414



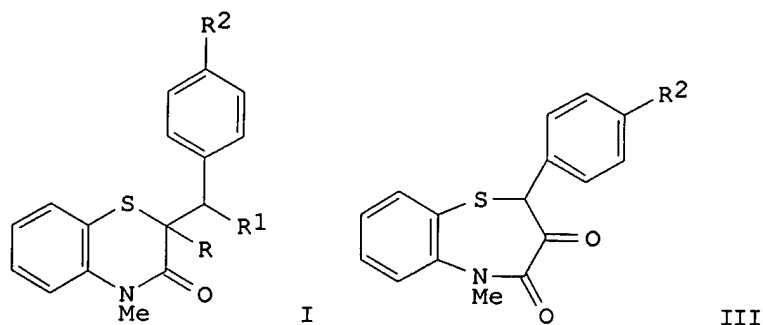
AB The title compds. I [R = H, halo, alkoxy; R1 = (substituted) alkyl, dialkylamino] were prepd. by, e.g., reaction of the benzothiazine derivs. II (R2R3 = p-RC6H4CH) with H2O2 and Me3SiX (X = halo) and ring enlargement of the resulting II (R2 = OH, R3 = p-RC6H4CHX). Thus, 1.43 mL Me3SiCl was added to a mixt. of 1 g II (R2R3 = PhCH, R1 = Me), 0.58 mL 30% H2O2, and 10 mL THF at -0 to -10.degree. over 15 min, the resulting mixt. stirred at room temp. for 2 h, and the resulting II (R2 = H, R3 = PhCHCl) (1 g) was treated with 1.04% Ag2CO3 with ice cooling for 30 min to give 0.73 g I (R = H, R1 = Me). I had coronary vasodilating, antiarrhythmic, analgesic and blood platelet aggregation-inhibiting activities (no data).

IT **30752-17-1**
 RL: RCT (Reactant)
 (reaction of, with trimethylsilyl chloride and hydrogen peroxide)
 RN 30752-17-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



144 ANSWER 37 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1983:594934 CAPLUS
 DOCUMENT NUMBER: 99:194934

TITLE: A simple ring expansion of 1,4-benzothiazines to give 1,5-benzothiazepines
 AUTHOR(S): Maki, Yoshifumi; Sako, Magoichi; Mitsumori, Naomichi; Maeda, Sadayuki; Takaya, Masahiro
 CORPORATE SOURCE: Gifu Coll. Pharm., Gifu, 502, Japan
 SOURCE: J. Chem. Soc., Chem. Commun. (1983), (8), 450-1
 CODEN: JCCCAT; ISSN: 0022-4936
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



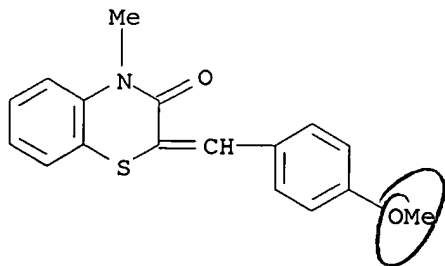
AB Addn. reaction of benzothiazinones I [RR1 = bond, R2 = H (II), OMe, Cl] with Me3SiOOH, generated in situ from Me3SiCl and H2O2, gave 90% I (R = OH, R1 = Cl, R2 as before), which underwent ring expansion on treatment with Ag2CO3 in THF at 0.degree. for 30 min to give benzothiazepines III (R2 as before) in high yields. III (R2 = H) was also prepd. from II by sequential oxidative addn. of AcOH, hydrolysis, and ring expansion by SOCl2. The ring expansion involves a episulfonium ion intermediate.

IT 87833-81-6

RL: RCT (Reactant)
 (chlorination/oxidn. of)

RN 87833-81-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-4-methyl- (9CI) (CA INDEX NAME)

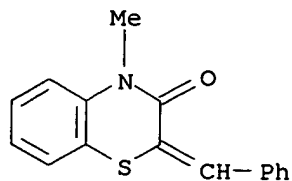


IT 30752-17-1

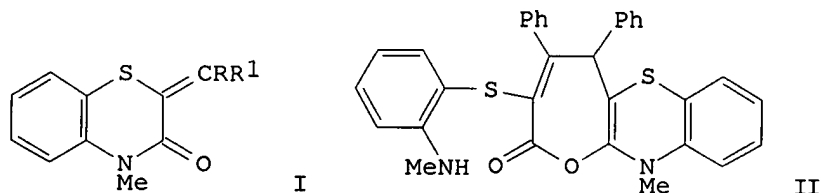
RL: RCT (Reactant)
 (oxidative acetylation and chlorination/oxidn. of)

RN 30752-17-1 CAPLUS

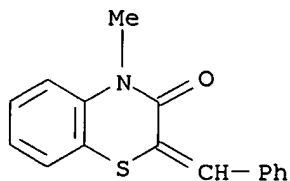
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA INDEX NAME)



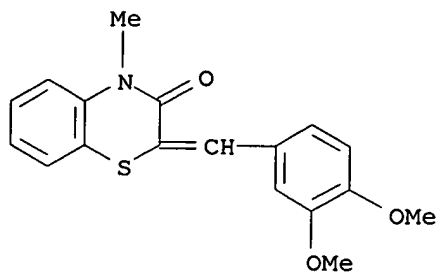
~~L14~~ ANSWER 38 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1983:215550 CAPLUS
 DOCUMENT NUMBER: 98:215550
 TITLE: Metalation of 2-alkylidene-3-oxo-1,4-benzothiazines
 at the olefinic position and reactions with
 electrophiles
 AUTHOR(S): Babudri, F.; Di Nunno, L.; Florio, S.
 CORPORATE SOURCE: Ist. Chim. Org., Univ. Bari, Bari, I-70 126, Italy
 SOURCE: Synthesis (1983), (3), 230-1
 CODEN: SYNTBF; ISSN: 0039-7881
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Lithiation of I [R = Ph, 3,4-(MeO)2C6H3, R1 = H] by LiN(CHMe2)2 at
 -100.degree. gave intermediate I (R1 = Li) which reacted with
 electrophiles R2X (R2 = Et, PhCH2, H2C:CHCH2, X = Br; R2 = D, X = Cl; R2
 =
 Me, X = iodo; R2X = Ac2O, PhSSPh) to give 50-92% of the corresponding I
 (R1 = R2). Allowing I (R = Ph, R1 = Li) to warm to room temp. gave 60%
 II.
 IT 30752-17-1 85809-71-8
 RL: RCT (Reactant)
 (metalation of, by lithium diisopropylamide)
 RN 30752-17-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA
 INDEX NAME)



RN 85809-71-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[(3,4-dimethoxyphenyl)methylene]-4-methyl-
 Hong

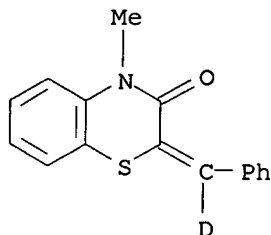


IT 85810-72-6P 85810-73-7P 85810-74-8P
85810-75-9P 85810-76-0P 85810-77-1P
85810-78-2P 85810-79-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

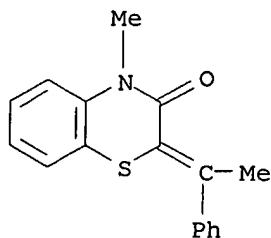
RN 85810-72-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene-d)- (9CI) (CA
INDEX NAME)



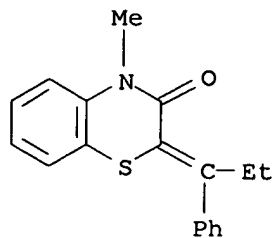
RN 85810-73-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(1-phenylethylidene)- (9CI)
(CA INDEX NAME)

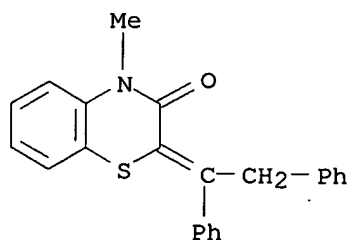


RN 85810-74-8 CAPLUS

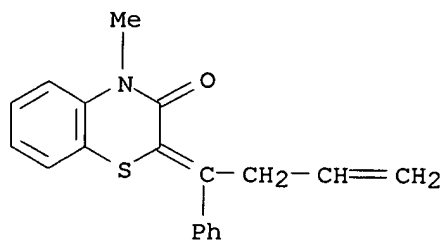
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(1-phenylpropylidene)- (9CI)
(CA INDEX NAME)



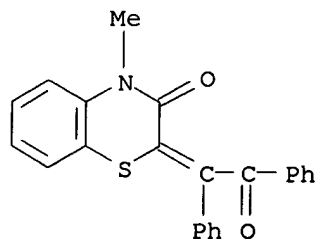
RN 85810-75-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1,2-diphenylethylidene)-4-methyl- (9CI)
 (CA INDEX NAME)



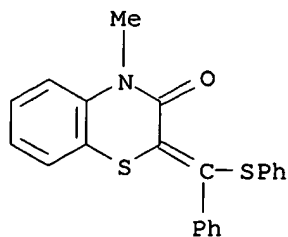
RN 85810-76-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(1-phenyl-3-butenylidene)- (9CI)
 (CA INDEX NAME)



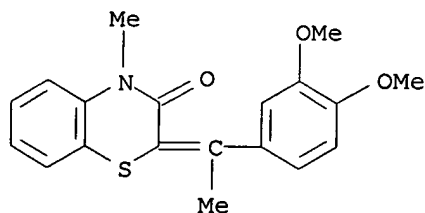
RN 85810-77-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(oxodiphenylethylidene)- (9CI)
 (CA INDEX NAME)



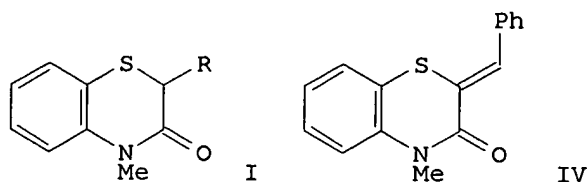
RN 85810-78-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[phenyl(phenylthio)methylene]- (9CI) (CA INDEX NAME)



RN 85810-79-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[1-(3,4-dimethoxyphenyl)ethylidene]-4-methyl- (9CI) (CA INDEX NAME)



L14 ANSWER 39 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1983:215549 CAPLUS
 DOCUMENT NUMBER: 98:215549
 TITLE: Stereoselective synthesis of
 2-alkylidene-3,4-dihydro-
 3-oxo-2H-1,4-benzothiazines
 AUTHOR(S): Babudri, F.; Di Nunno, L.; Florio, S.
 CORPORATE SOURCE: Ist. Chim. Org., Univ. Bari, Bari, 70126, Italy
 SOURCE: Tetrahedron (1982), 38(20), 3059-65
 CODEN: TETRAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Metalation of benzothiazine (I; R = H) (II) with $\text{LiN}(\text{CHMe}_2)_2$ followed by condensation reaction with aldehydes gave mixt. of diastereomeric aldols, which on acetylation and AcOH elimination gave high yields of the title compds., stereoselectively. E.g., metalation and reaction of II with PhCHO for 30 min gave 82% of a 1:1 mixt. of threo- and erythro-I [R = $\text{CH}(\text{OH})\text{Ph}$], which on acetylation gave threo- and erythro-I [R = $\text{CH}(\text{OAc})\text{Ph}$] (III), in 88 and 80% yield, resp. Elimination reaction of III gave 62% benzothiazine IV.

IT 30752-17-1P 85809-67-2P 85809-68-3P

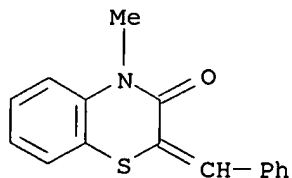
85809-69-4P 85809-70-7P 85809-71-8P

85809-72-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

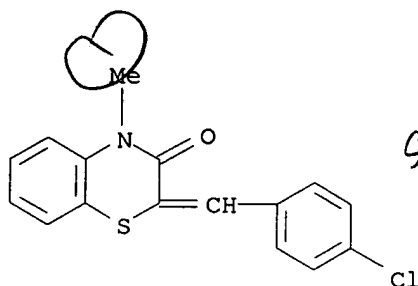
RN 30752-17-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA
INDEX NAME)



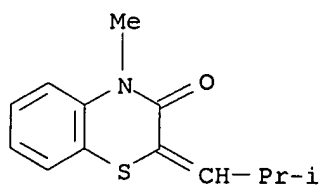
RN 85809-67-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]-4-methyl-
(9CI) (CA INDEX NAME)



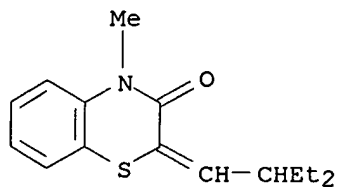
RN 85809-68-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(2-methylpropylidene)- (9CI)
(CA INDEX NAME)



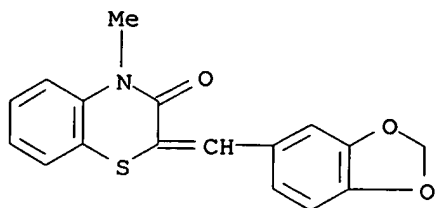
RN 85809-69-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-ethylbutylidene)-4-methyl- (9CI) (CA
INDEX NAME)

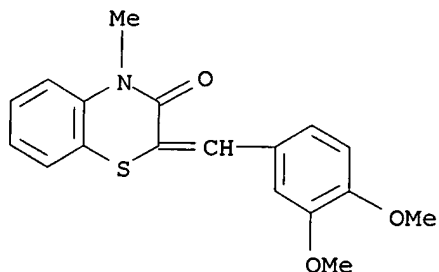


RN 85809-70-7 CAPLUS

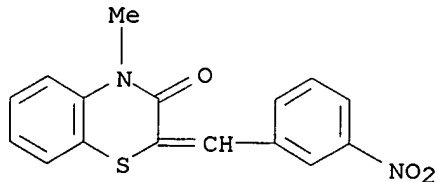
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-(1,3-benzodioxol-5-ylmethylene)-4-methyl-



RN 85809-71-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[(3,4-dimethoxyphenyl)methylene]-4-methyl-
(9CI) (CA INDEX NAME)



RN 85809-72-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(3-nitrophenyl)methylene]-
(9CI) (CA INDEX NAME)



✓ Z14 ANSWER 40 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1982:616104 CAPLUS

DOCUMENT NUMBER: 97:216104

TITLE: Structure of the bromination product of
2-ethyl-1,4-benzothiazin-3(4H)-one

AUTHOR(S): Bates, Robert B.; Duguay, Laurent M.; Klenck, Robert
E.; Kriek, George R.; Tempesta, Michael S.; Brewer,
Arthur D.

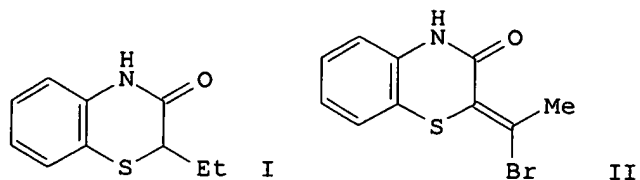
CORPORATE SOURCE: Dep. Chem., Univ. Arizona, Tucson, AZ, 85721, USA

SOURCE: J. Heterocycl. Chem. (1982), 19(4), 927-8
CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



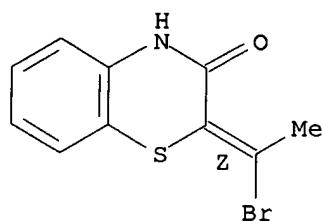
AB Ethyl-1,4-benzothiazinone I and bromine react to give (Z)-
 (bromoethylidene)-1,4-benzothiazinone II which results from a complex
 bromination-oxidn. sequence. The structure II was detd. by an x-ray
 crystal structure anal.

IT **83715-98-4P**
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and crystal structure of)

RN 83715-98-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-bromoethylidene)-, (Z)- (9CI) (CA
 INDEX NAME)

Double bond geometry as shown.



114 ANSWER 41 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1982:582315 CAPLUS

DOCUMENT NUMBER: 97:182315

TITLE: Products from dimethyl hex-2-en-1-yne-1,6-dioate and
 dimethyl penta-2,3-diene-1,5-dioate with compounds
 possessing two adjacent nucleophilic centers

AUTHOR(S): Acheson, R. Morrin; Wallis, John D.

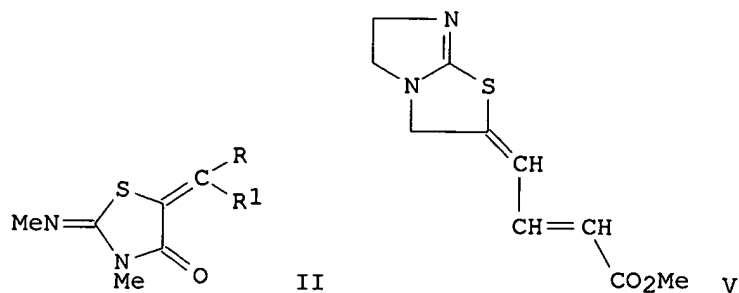
CORPORATE SOURCE: Dep. Biochem., Univ. Oxford, Oxford, OX1 3QU, UK

SOURCE: J. Chem. Soc., Perkin Trans. 1 (1982), (8), 1905-14
 CODEN: JCPRB4; ISSN: 0300-922X

DOCUMENT TYPE: Journal

LANGUAGE: English

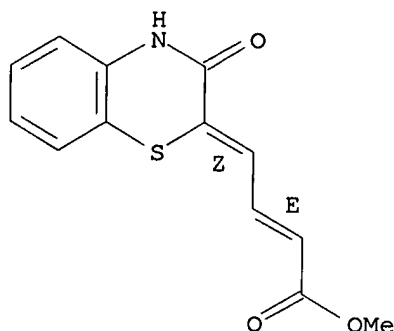
GI



AB MeO2CC.tplbond.CCH:CHCO2Me (I) was sulfurized, mainly in the 5-position, by thioureas and thioamides. In some cases cis as well as trans addn. was obsd., even in MeOH. E.g., I with (MeNH)2CS in MeOH at room temp. for 6 h gave 52% II (R = E-CH:CHCO2Me, R1 = H) (III) and 1.6% II (R = H, R1 = E-CH:CHCO2Me) (IV): the same reaction in dry MeCN gave a 14:86 mixt. of III and IV. Imidazoline- and benzimidazole-2-thione reacted with I at the 4-position to give fused thiazinones. E.g., I with imidazoline-2-thione in warm MeCN gave 14.0% V. 2-Aminobenzothiazole, 2-aminothiazole, and 2-aminopyridine added to the 4-position of I via the ring N; subsequent cyclization gave fused pyrimidones. C6H4(NH2)2-1,2 (VI) and 2-H2NC6H4SH (VII) added at the 5-position, but addn. at the 4-position was followed by further Michael addn. to the 3-position. With (MeO2CCH:)2C, VI and VII gave cyclic compds. with an exocyclic unsatd. ester group, whereas thioureas gave derivs. of Me 4-oxothiazin-6-ylacetate.

IT **83443-74-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 83443-74-7 CAPLUS
 CN 2-Butenoic acid, 4-(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



44 ANSWER 42 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1981:121569 CAPLUS

DOCUMENT NUMBER: 94:121569

TITLE:

2-Methylene-2,3-dihydro-3-oxo-4H-1,4-benzothiazine-1,1-dioxide compounds

INVENTOR(S): Eiden, Fritz; Meinel, Franz; Mayer, Dieter

PATENT ASSIGNEE(S): Thiemann, Dr., G.m.b.H. Chem.-Pharm. Fabrik, Fed. Rep.

SOURCE: Ger.
 Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

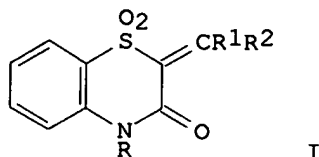
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2912445	A1	19801009	DE 1979-2912445	19790329

GI

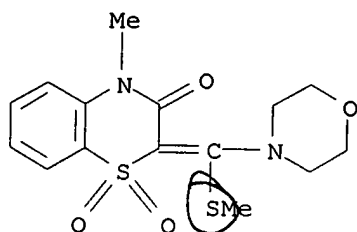


AB Antiarrhythmic (no data) methylenebenzothiazinone dioxides I (R = H, alkyl; R1 = alkylthio; R2 = amino) were prepd. Thus, I (R = Me, R1 = R2 = SMe) was treated with morpholine to give 42% I (R = Me, R1 = SMe, R2 = morpholino).

IT 70685-34-6P 70685-35-7P 70685-36-8P
76952-60-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

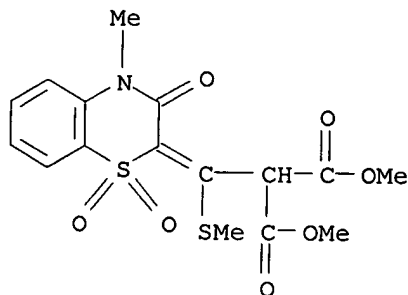
RN 70685-34-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(methylthio)-4-morpholinylmethylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



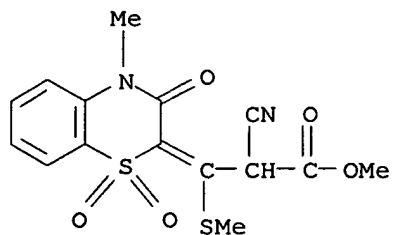
RN 70685-35-7 CAPLUS

CN Propanedioic acid, [(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)(methylthio)methyl]-, dimethyl ester (9CI) (CA INDEX NAME)

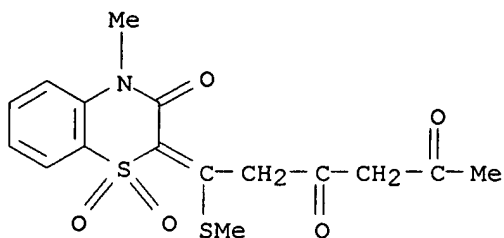


RN 70685-36-8 CAPLUS

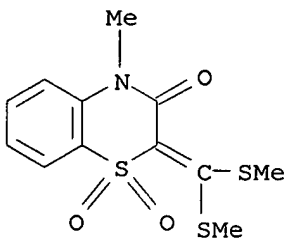
CN Propanoic acid, 2-cyano-3-(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-3-(methylthio)-, methyl ester (9CI) (CA INDEX NAME)



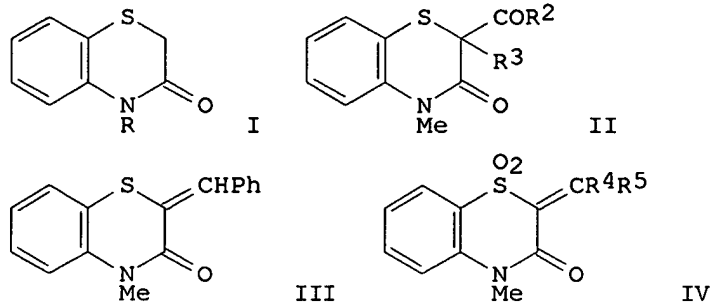
RN 76952-60-8 CAPLUS
 CN 2,4-Hexanedione, 6-(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-6-(methylthio)- (9CI) (CA INDEX NAME)



IT 70685-33-5
 RL: RCT (Reactant)
 (reaction of, with amines)
 RN 70685-33-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[bis(methylthio)methylene]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



114 ANSWER 43 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1979:439408 CAPLUS
 DOCUMENT NUMBER: 91:39408
 TITLE: 2,3-Dihydro-1,4-benzothiazin-3-ones
 AUTHOR(S): Eiden, Fritz; Meinel, Franz
 CORPORATE SOURCE: Inst. Pharm. Lebensmittelchem., Univ. Muenchen, Munich, 8000/2, Fed. Rep. Ger.
 SOURCE: Arch. Pharm. (Weinheim, Ger.) (1979), 312(4), 302-12
 CODEN: ARPMAS; ISSN: 0365-6233
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI



AB Title compds I (R = H, Me) and S-oxides and S,S-dioxides of I were prepd. e.g., by cyclocondensation of 2-HSC₆H₄NH₂ with ClCH₂CO₂R₁ (R₁ = H, Et), followed by oxidn. and/or methylation. I (R = Me) reacted with carboxylic

esters and NaH to give II (R₂ = Me, Ph, COCO₂Et; R₃ = H). Reaction of II (R₂ = Me, R₃ = H) with H₂O₂-HOAc gave II (R₃ = OAc). I or their oxides reacted with aldehydes; e.g., I (R = Me) and BzH gave III. I dioxide (R

=

Me) reacted with CS₂-Me₂SO₄ to give IV (R₄ = R₅ = MeS) and with DMF di-Me acetal to give IV (R₄ = Me₂N, R₅ = H).

IT 70685-26-6P 70685-27-7P 70685-28-8P

70685-29-9P 70685-33-5P 70685-34-6P

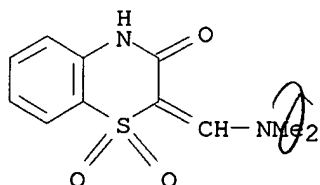
70685-35-7P 70685-36-8P 70685-37-9P

70685-38-0P 70685-39-1P 70685-40-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

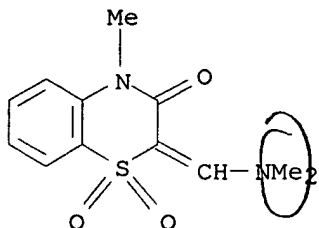
RN 70685-26-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(dimethylamino)methylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)



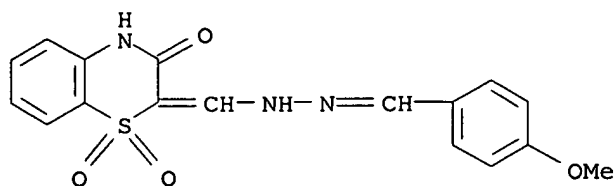
RN 70685-27-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(dimethylamino)methylene]-4-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)

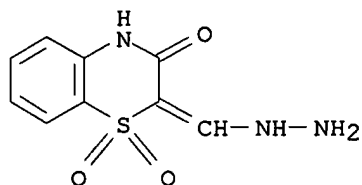


RN 70685-28-8 CAPLUS

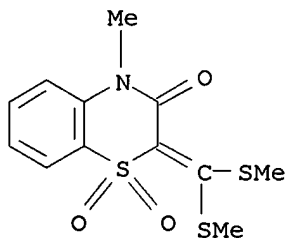
CN Benzaldehyde, 4-methoxy-, [(3,4-dihydro-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]hydrazone (9CI) (CA INDEX NAME)



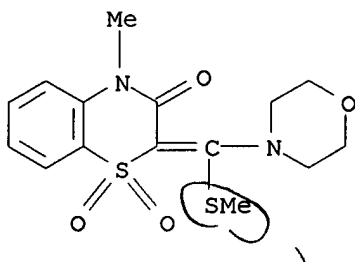
RN 70685-29-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(hydrazinomethylene)-, 1,1-dioxide (9CI)
 (CA INDEX NAME)



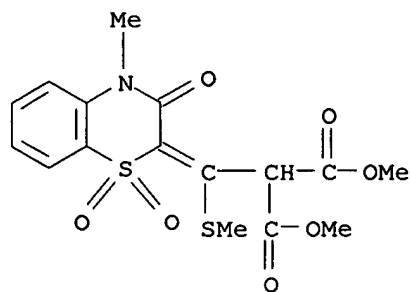
RN 70685-33-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[bis(methylthio)methylene]-4-methyl-,
 1,1-dioxide (9CI) (CA INDEX NAME)



RN 70685-34-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(methylthio)-4-morpholinylmethylene]-, 1,1-dioxide (9CI) (CA INDEX NAME)

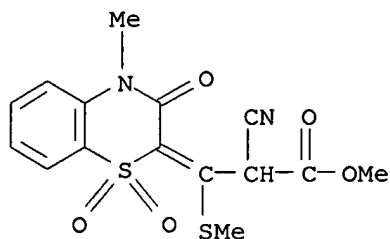


RN 70685-35-7 CAPLUS
 CN Propanedioic acid, [(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)(methylthio)methyl]-, dimethyl ester (9CI) (CA INDEX NAME)



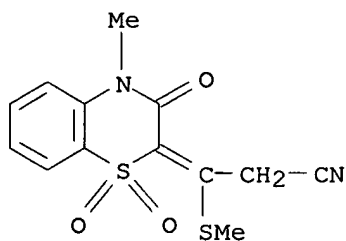
RN 70685-36-8 CAPLUS

CN Propanoic acid, 2-cyano-3-(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-3-(methylthio)-, methyl ester (9CI) (CA INDEX NAME)



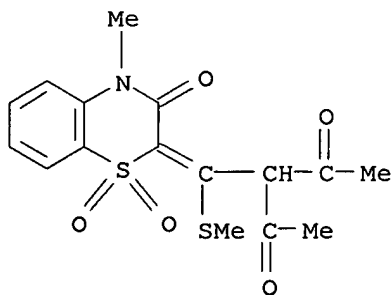
RN 70685-37-9 CAPLUS

CN Propanenitrile, 3-(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)-3-(methylthio)- (9CI) (CA INDEX NAME)

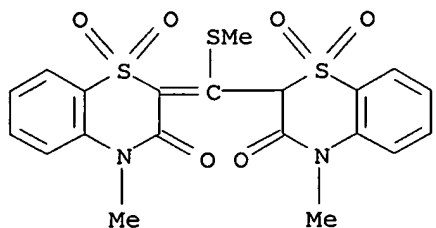


RN 70685-38-0 CAPLUS

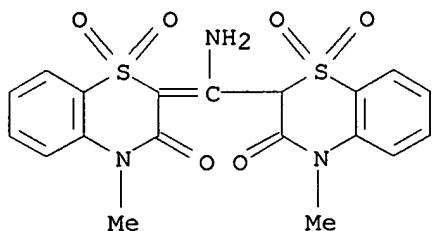
CN 2,4-Pentanedione, 3-[(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-2H-1,4-benzothiazin-2-ylidene)(methylthio)methyl]- (9CI) (CA INDEX NAME)



RN 70685-39-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[(3,4-dihydro-4-methyl-1,1-dioxido-3-oxo-
 2H-1,4-benzothiazin-2-ylidene)(methylthio)methyl]-4-methyl-, 1,1-dioxide
 (9CI) (CA INDEX NAME)



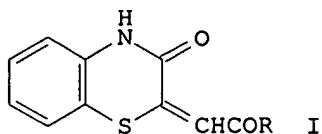
RN 70685-40-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[amino(3,4-dihydro-4-methyl-1,1-dioxido-3-
 oxo-2H-1,4-benzothiazin-2-ylidene)methyl]-4-methyl-, 1,1-dioxide (9CI)
 (CA INDEX NAME)



44 ANSWER 44 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1979:152210 CAPLUS
 DOCUMENT NUMBER: 90:152210
 TITLE: 2-Phenacylidenebenzo-1,4-thiazin-3-ones
 INVENTOR(S): Andreichikov, Yu. S.; Tendryakova, S. P.; Nalimova,
 Yu. A.; Voronova, L. A.; Vilenchik, Ya. M.
 PATENT ASSIGNEE(S): Perm Pharmaceutical Institute, USSR
 SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy,
 Tovarnye Znaki 1978, 55(40), 78.
 CODEN: URXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 630254	T	19781030	SU 1976-2361368	19760518

GI

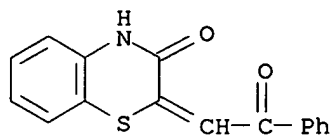


AB The prepn. of title compds. I (R = Ph, p-tolyl, p-MeOC₆H₄, BrC₆H₄) by treating o-HSC₆H₄NH₂ with a dicarbonyl deriv. in an org. solvent was improved by using the corresponding 5-aryl-2,3-furandione as the dicarbonyl deriv. in C₆H₆.

IT 64393-75-5P 64393-76-6P 64393-77-7P
64393-80-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

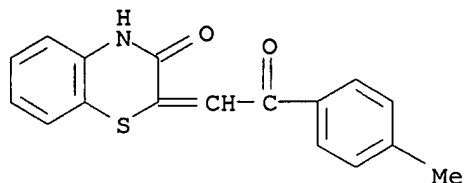
RN 64393-75-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)



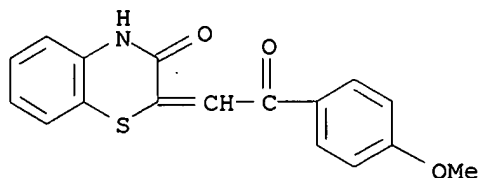
RN 64393-76-6 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



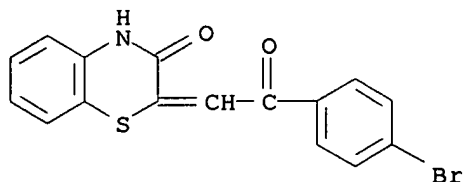
RN 64393-77-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methoxyphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



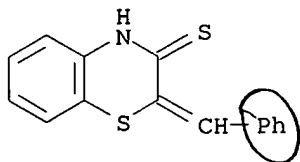
RN 64393-80-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-bromophenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



114

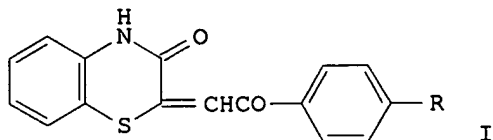
ACCESSION NUMBER: 1979:54901 CAPLUS
 DOCUMENT NUMBER: 90:54901
 TITLE: Studies of the blue color of some mesoionic 1,3-thiazolo[3,2-a]-4-quinazolones
 AUTHOR(S): Talukdar, P. B.; Sengupta, S. K.; Datta, A. K.
 CORPORATE SOURCE: Res. Dev. Div., East India Pharm. Works Ltd., Calcutta, India
 SOURCE: Indian J. Chem., Sect. B (1978), 16B(8), 678-82
 CODEN: IJSBDB; ISSN: 0376-4699
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Synthetic studies on the blue color of mesoionic thiazolo[3,2-a]-4-quinazolones (I, R = e.g. p-MeC₆H₄) suggest that an aryl type substituent at N-3 and a polar CO group at N-1 in the 4-quinazalone residue are essential structural features necessary for the development of a blue color. Whereas 9-mercaptophenanthridine gives a stable orange-yellow compd., attempted synthesis of similar fused ring mesoionic systems from 1,8-naphthyridine, 1,4-benzothiazine and quinoxaline derivs. yield highly sensitive unstable compds.
 IT 69001-93-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction with sodium chloroacetate)
 RN 69001-93-0 CAPLUS
 CN 2H-1,4-Benzothiazine-3(4H)-thione, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



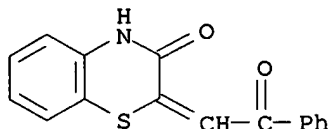
~~LI4~~ ANSWER 46 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1978:529528 CAPLUS
 DOCUMENT NUMBER: 89:129528
 TITLE: 2-Phenacylidenebenzo-1,4-thiazin-3-ones
 INVENTOR(S): Andreichikov, Yu. S.; Tendryakova, S. P.; Nalimova, Yu. A.; Voronova, L. A.
 PATENT ASSIGNEE(S): Perm Pharmaceutical Institute, USSR
 SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1978, 55(26), 76.
 CODEN: URXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Russian
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 615071	T	19780715	SU 1975-2154320	19750708

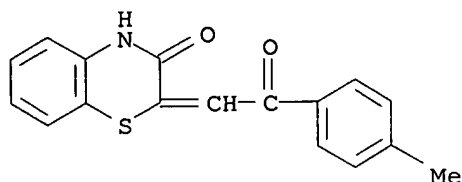
GI



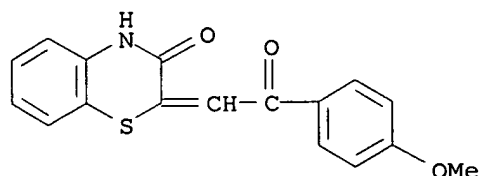
AB Title compds. I (R = H, Me, MeO, Et, Br) were prepd. by treating
 o-H₂NC₄H₄SH with p-RC₆H₄COCH₂COCO₂H at 95-105.degree. in dioxane.
 IT 64393-75-5P 64393-76-6P 64393-77-7P
 64393-78-8P 64393-80-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 64393-75-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA
 INDEX NAME)



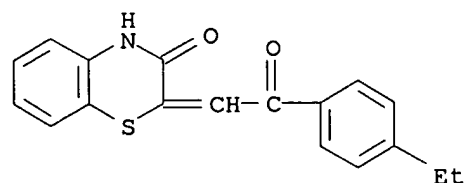
RN 64393-76-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]-
 (9CI) (CA INDEX NAME)



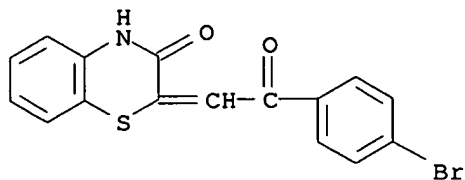
RN 64393-77-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methoxyphenyl)-2-oxoethylidene]-
 (9CI) (CA INDEX NAME)



RN 64393-78-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-ethylphenyl)-2-oxoethylidene]-
 (9CI) (CA INDEX NAME)



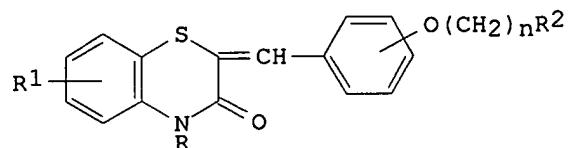
RN 64393-80-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-bromophenyl)-2-oxoethylidene]-
 (9CI) (CA INDEX NAME)



L14 ANSWER 47 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1978:509526 CAPLUS
 DOCUMENT NUMBER: 89:109526
 TITLE: Substituted 2H-1,4-benzothiazin-3(4H)-ones
 INVENTOR(S): Krapcho, John
 PATENT ASSIGNEE(S): Squibb, E. R., and Sons, Inc., USA
 SOURCE: U.S., 7 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4078062	A	19780307	US 1976-736620	19761028

GI



I

AB The title compds. I (R = H, alkyl, aralkyl, R1 = H, halo, alkyl, alkoxy, CF3, NH2, NO2, R2 = dialkylamino, piperidino, morpholino, alkylpiperazinyl, n = 2-5), useful as inflammation inhibitors, were prepd.

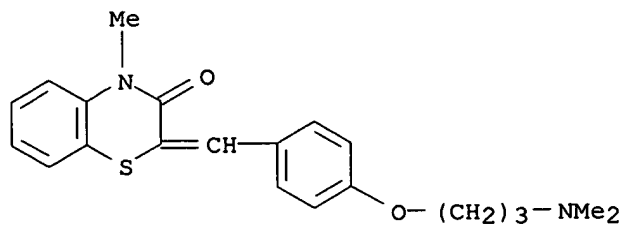
by condensing 4-methyl-1,4-benzothiazin-3(4H)-one with R2(CH2)nOC6H4CHO, isolated as the hydrochlorides.

IT 66820-19-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and inflammation inhibiting activity of)

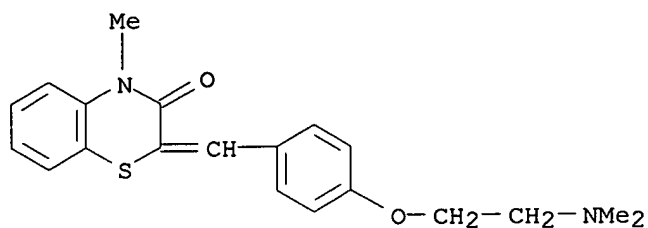
RN 66820-19-7 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[4-[3-(dimethylamino)propoxy]phenyl]meth
 ylene]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



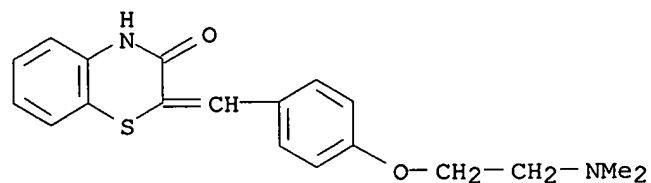
● HCl

IT 66820-21-1P 66820-24-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and inflammation-inhibiting activity of)
 RN 66820-21-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[4-[2-(dimethylamino)ethoxy]phenyl]methy-
 lene]-4-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 66820-24-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[4-[2-(dimethylamino)ethoxy]phenyl]methy-
 lene]-, monohydrochloride (9CI) (CA INDEX NAME)



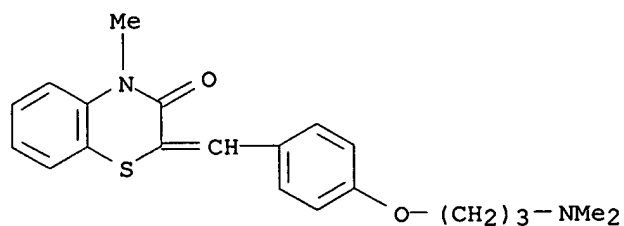
● HCl

IT 66820-18-6P 66820-20-0P 66820-22-2P
 66820-23-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and salt formation from)
 RN 66820-18-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[4-[3-(dimethylamino)propoxy]phenyl]meth-
 ylene]-4-methyl-, ethanedioate (9CI) (CA INDEX NAME)

CM 1

CRN 66820-17-5

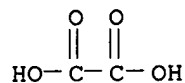
CMF C21 H24 N2 O2 S



CM 2

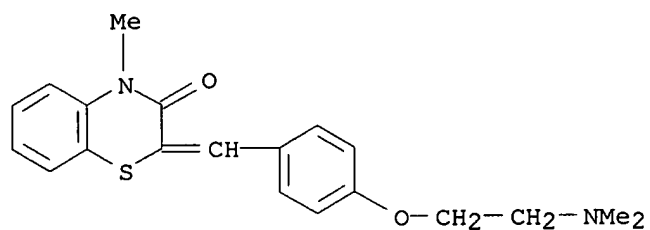
CRN 144-62-7

CMF C2 H2 O4



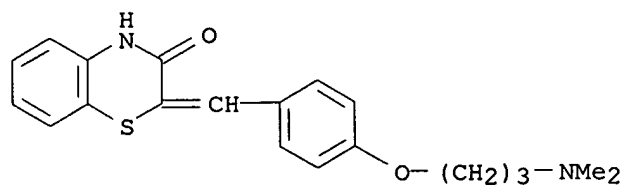
RN 66820-20-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[[4-[2-(dimethylamino)ethoxy]phenyl]methylene]-4-methyl- (9CI) (CA INDEX NAME)



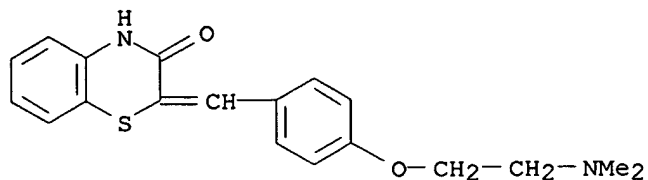
RN 66820-22-2 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[[4-[3-(dimethylamino)propoxy]phenyl]methylene]- (9CI) (CA INDEX NAME)

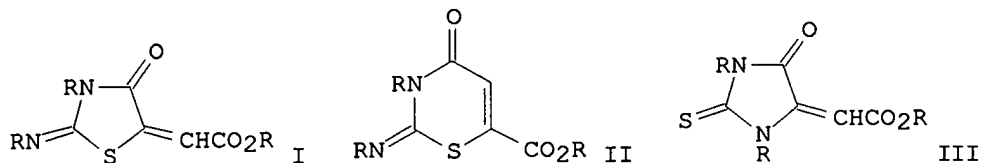


RN 66820-23-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one,
2-[[4-[2-(dimethylamino)ethoxy]phenyl]methylene]- (9CI) (CA INDEX NAME)

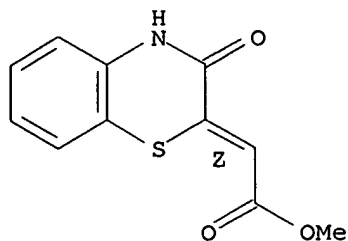


~~174~~ ANSWER 48 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1978:405576 CAPLUS
 DOCUMENT NUMBER: 89:5576
 TITLE: Carbon-13 NMR spectroscopy, part 19. Structures of addition products of acetylenedicarboxylic acid esters with various dinucleophiles. An application of C,H-spin-coupling constants
 AUTHOR(S): Voegeli, Ulrich; Von Philipsborn, Wolfgang; Nagarajan, Kuppuswamy; Nair, Mohan D.
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Zurich, Zurich, Switz.
 SOURCE: Helv. Chim. Acta (1978), 61(2), 607-17
 CODEN: HCACAV; ISSN: 0018-019X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



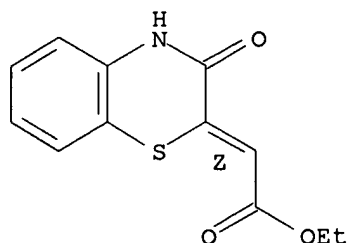
AB Heterocyclic compds. of the general types I, II, and III (R = alkyl), obtained by addn. reaction of acetylenedicarboxylate esters with thioureas, cyclic amidines, etc., were studied by C-13 NMR. Constitutional isomers were distinguished by C-H spin coupling consts. Configurations of trisubstituted exocyclic C-C double bonds were detd.
 IT **37893-72-4 66628-74-8**
 RL: PRP (Properties)
 (NMR of)
 RN 37893-72-4 CAPLUS
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 66628-74-8 CAPLUS
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester, (Z)- (9CI) (CA INDEX NAME)

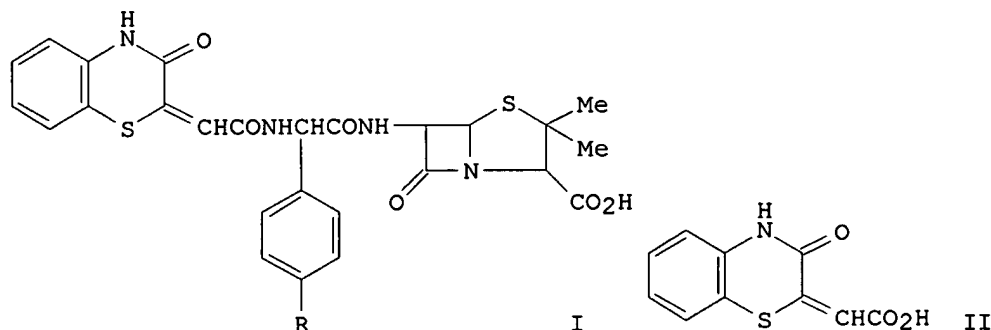
Double bond geometry as shown.



~~14~~ ANSWER 49 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1978:50888 CAPLUS
 DOCUMENT NUMBER: 88:50888
 TITLE: Acylaminopenicillins
 INVENTOR(S): Kuramoto, Masashi; Yaso, Masao; Sakeko, Magoichi; Saito, Satoshi; Yamaguchi, Tsutomu; Maki, Hirofumi
 PATENT ASSIGNEE(S): Toyo Jozo Co., Ltd., Japan
 SOURCE: Japan. Kokai, 4 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52091888	A2	19770802	JP 1976-8740	19760128

GI



AB Two title compds. I (R = H, OH) were prepd. by reaction of ampicillin or amoxicillin with II or its derivs. Thus, 0.18 mL ClCO₂Et and a mixt. of 0.44 g II and Et₃N in DMF (ice-NaCl cooled) were stirred 20 min, a mixt. of 0.8 g ampicillin-3H₂O and Et₃N in DMF added, and the whole stirred 5 h at room temp. to give 1.05 g I (R = H) (III). Min. growth inhibitory concn. of III against *Pseudomonas pyocyanea* was 6.2 mcg/mL.

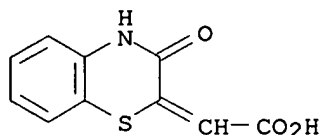
IT 63351-92-8

RL: RCT (Reactant)
(acylation of ampicillin by)

RN 63351-92-8 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI)
(CA

INDEX NAME)



IT 65283-01-4P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and bactericidal activity of)

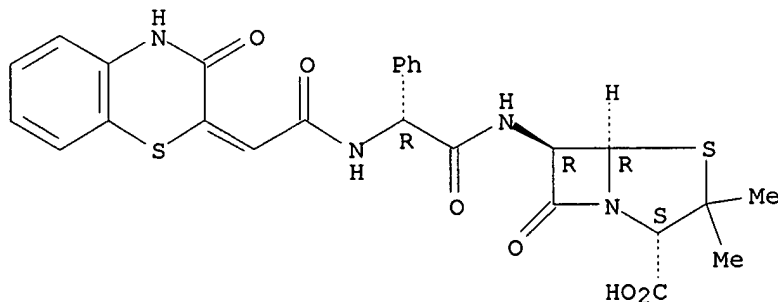
RN 65283-01-4 CAPLUS

CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid,

6-[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2.alpha.,5.alpha.,6.beta.(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



IT 65283-02-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

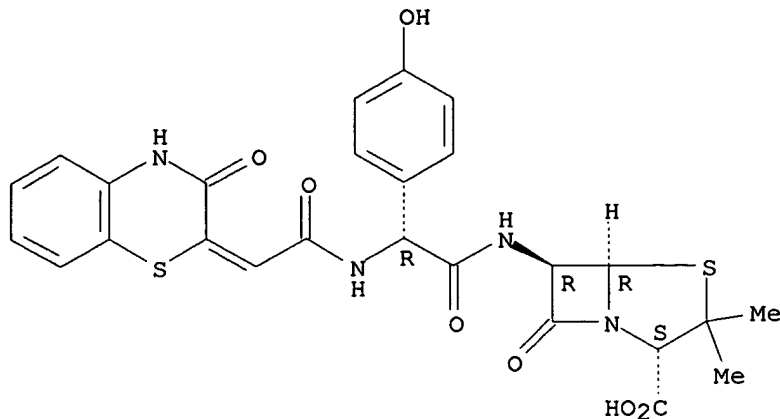
RN 65283-02-5 CAPLUS

CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid,

6-[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino] (4-hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-, [2S-[2.alpha.,5.alpha.,6.beta.(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



~~II4~~ ANSWER 50 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1977:567957 CAPLUS

DOCUMENT NUMBER: 87:167957

TITLE: Chemistry of oxalyl derivatives of methyl ketones.
V.

Reaction of aroylpyruvic acids and their derivatives
with o-aminothiophenol

AUTHOR(S): Andreichikov, O. S.; Tendryakova, S. P.; Nalimova,
Yu.

A.; Voronova, L. A.

CORPORATE SOURCE: Perm. Farm. Inst., Perm, USSR

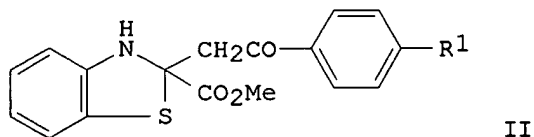
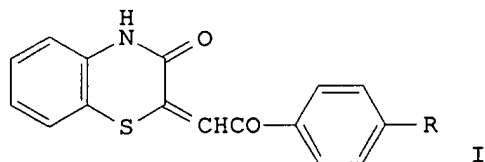
SOURCE: Khim. Geterotsikl. Soedin. (1977), (6), 755-7

CODEN: KGSSAQ

DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI



AB Benzothiazinones I (R = H, Me, MeO, Et, Cl, Br, F) were obtained in
72-82%

yields by cyclocondensation p-RC₆H₄COCH₂COCO₂H with o-H₂NC₆H₄SH. I (R =
H, Me, MeO, Br) were obtained in 76-98% yields by cyclocondensation of
the

corresponding 5-aryl-2,3-furandione with o-H₂NC₆H₄SH. Benzothiazolines
II

(R₁ = H, Me, MeO, Cl) were obtained in 85-98% yields by cyclocondensation
of p-R₁C₆H₄COCH₂COCO₂Me with o-H₂NC₆H₄SH.

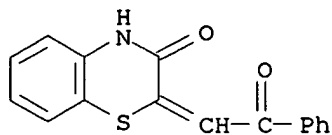
IT 64393-75-5P 64393-76-6P 64393-77-7P

64393-78-8P 64393-79-9P 64393-80-2P

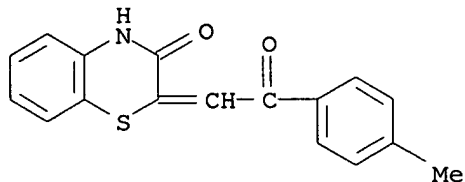
64393-81-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

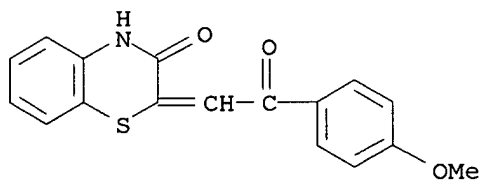
(prepn. of)
RN 64393-75-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-oxo-2-phenylethylidene)- (9CI) (CA INDEX NAME)



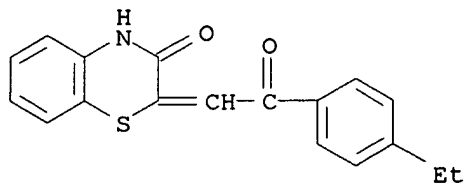
RN 64393-76-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



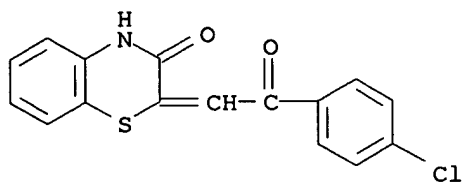
RN 64393-77-7 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-methoxyphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



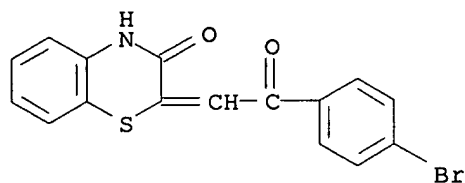
RN 64393-78-8 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-ethylphenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



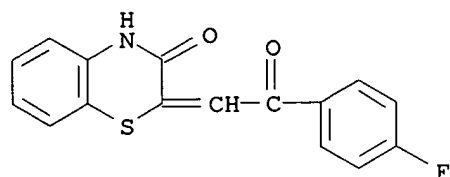
RN 64393-79-9 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-chlorophenyl)-2-oxoethylidene]- (9CI) (CA INDEX NAME)



RN 64393-80-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-bromophenyl)-2-oxoethylidene]-
 (9CI) (CA INDEX NAME)



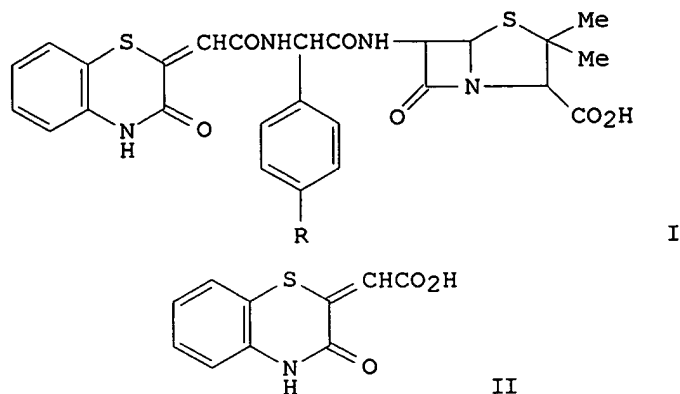
RN 64393-81-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(4-fluorophenyl)-2-oxoethylidene]-
 (9CI) (CA INDEX NAME)



114 ANSWER 51 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1977:468378 CAPLUS
 DOCUMENT NUMBER: 87:68378
 TITLE: .alpha.-Acylamidobenzylpenicillins
 INVENTOR(S): Kuramoto, Masashi; Yaso, Masao; Sakou, Magoichi;
 Saito, Tetsu; Yamaguchi, Tsutomu; Maki, Yoshifumi
 PATENT ASSIGNEE(S): Toyo Jozo Co., Ltd., Japan
 SOURCE: Japan. Kokai, 3 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 51133298	A2	19761118	JP 1975-58239	19750515

GI



AB I (R = H, OH) Na salts were prepd. by acylating .alpha.-aminobenzylpenicillins or their salts with II or its reactive derivs. I (R = H) inhibited the growth of *Pseudomonas pyocyanea* NCTC 10490 at 0.2 .mu.g/mL. Thus, 0.44 g II was activated with ClCO₂Et-Et₃N in DMF and stirred with 0.8 g ampicillin-3H₂O to give 1.05 g I (R = H) Na salt.

IT **63351-92-8**

RL: RCT (Reactant)

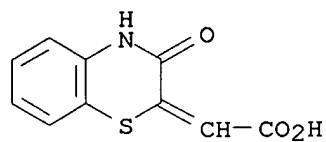
(acylation of ampicillin amd amoxycillin by)

RN 63351-92-8 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI)

(CA

INDEX NAME)



IT **63351-93-9P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and bactericidal activity of)

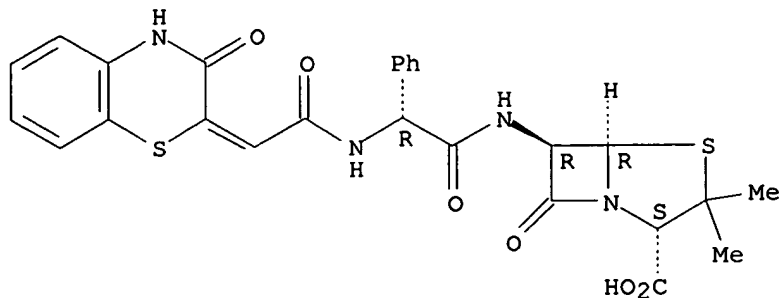
RN 63351-93-9 CAPLUS

CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid,

6-[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino]phenylacetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt, [2S-[2.alpha.,5.alpha.,6.beta.(S*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



● Na

IT 63397-82-0P

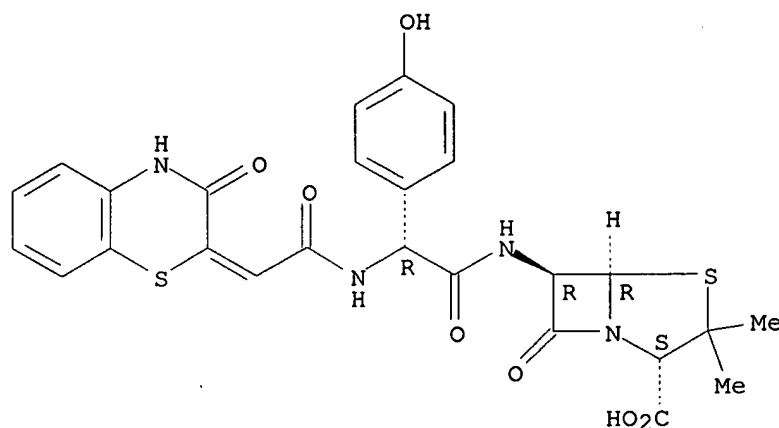
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 63397-82-0 CAPLUS

CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid,
6-[[[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)acetyl]amino](4-hydroxyphenyl)acetyl]amino]-3,3-dimethyl-7-oxo-, monosodium salt,
[2S-[2.alpha.,5.alpha.,6.beta.(S*)]]- (9CI) (CA INDEX NAME)

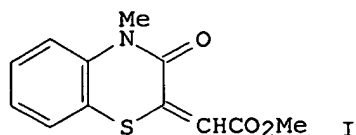
Absolute stereochemistry.

Double bond geometry unknown.



● Na

114 ANSWER 52 OF 74 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1977:105433 CAPLUS
DOCUMENT NUMBER: 86:105433
TITLE: Facile thermal dimerization of a photochemically
isomerized olefin
AUTHOR(S): Maki, Yoshifumi; Sako, Magoichi
CORPORATE SOURCE: Gifu Coll. Pharm., Gifu, Japan
SOURCE: Chem. Pharm. Bull. (1976), 24(9), 2250-3
CODEN: CPBTAL
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB In sharp contrast to the Z form of I, the photochem.-produced isomer, E-I, underwent a facile thermal dimerization to form a cyclobutane deriv. Thus, the apparent photodimerization of Z-I involves primarily the thermal dimerization of its photochem. produced isomer.

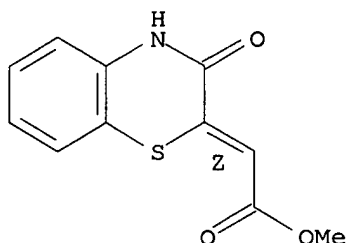
IT 37893-72-4

RL: RCT (Reactant)
(methylation of)

RN 37893-72-4 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



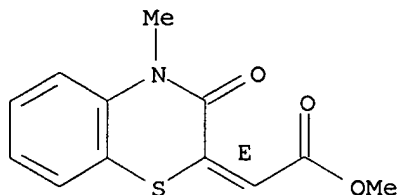
IT 61955-27-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and photochem. cycloaddition of)

RN 61955-27-9 CAPLUS

CN Acetic acid, (3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



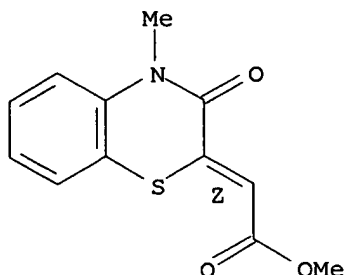
IT 61955-26-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and photoisomerization of)

RN 61955-26-8 CAPLUS

CN Acetic acid, (3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 61960-48-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 61960-48-3 CAPLUS

CN Acetic acid, (3,4-dihydro-4-methyl-3-oxo-2H-1,4-benzothiazin-2-ylidene)-,
methyl ester, (E)-, dimer (9CI) (CA INDEX NAME)

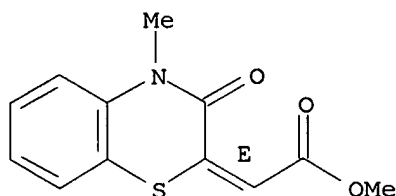
CM 1

CRN 61955-27-9

CMF C12 H11 N O3 S

CDES 2:E

Double bond geometry as shown.



I14 ANSWER 53 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1976:74279 CAPLUS

DOCUMENT NUMBER: 84:74279

TITLE: 3,4-Dihydro-3-oxo-2H-1,4-benzothiazines and
benzoxazines

INVENTOR(S): Worley, Jimmy W.

PATENT ASSIGNEE(S): Monsanto Co., USA

SOURCE: U.S., 7 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3923709	A	19751202	US 1974-502114	19740830

GI For diagram(s), see printed CA Issue.

AB The benzothiazines I (R = CH₂CO₂Et, X = m-F₃CC₆H₄CH, 3,4-methylenedioxybenzylidene, p-MeOC₆H₄CH, m-O₂NC₆H₄CH, 2,4-Cl₂C₆H₃CH) were prepd. by reaction of I [R = CH₂CO₂Et, X = H, P(O)(OEt)₂] with aldehydes. I [R = CH₂CO₂Et; 3,5-(MeO)₂C₆H₃CH, 3,4,5-(MeO)₃C₆H₂CH, PhCH, cyclohexylidene, Me₂C, etc.] were prepd. by treating I [R = H, X = H, P(O)(OEt)₂] with aldehydes followed by bromoacetates. Et 3,4-dihydro-2-(p-chlorobenzylidene)-3-oxo-2H-1,4-benzoxazine-4-acetate was similarly prepd. In preemergence application at 4-10 lbs/acre I

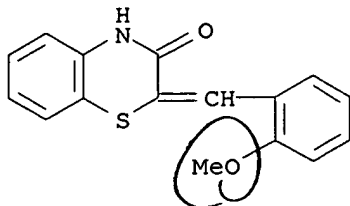
controlled broadleaf plants.

IT 58216-00-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reaction with bromoacetate)

RN 58216-00-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methoxyphenyl)methylene]- (9CI) (CA INDEX NAME)



~~LE4~~ ANSWER 54 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1976:59503 CAPLUS

DOCUMENT NUMBER: 84:59503

TITLE: 2-Substituted methylene-3,4-dihydro-3-oxo-2H-1,4-benzothiazine-4-acetic acid and esters

INVENTOR(S): Worley, Jimmy W.

PATENT ASSIGNEE(S): monsanto, USA

SOURCE: U.S., 3 pp.

CODEN: USXXAM

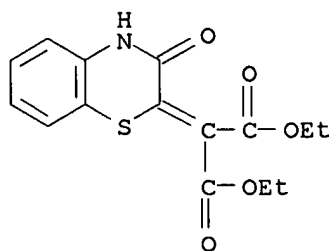
DOCUMENT TYPE: Patent

LANGUAGE: English

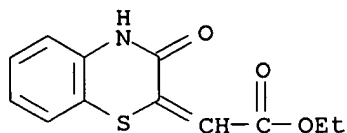
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

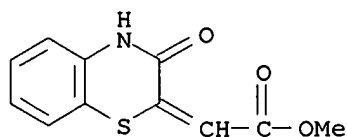
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
	US 3910904	A	19751007	US 1974-496507	19740812
GI	For diagram(s), see printed CA Issue.				
AB	Four benzothiazines I (X = H, CO ₂ R; R = H, Me, Et; R ₁ = H, Et), useful in regulation of plant growth, e.g., soybeans, were prep'd., where X = H, by reaction of 2-[(alkoxycarbonyl)methylene]-3,4-dihydro-3-oxo-2H-1,4-benzothiazine with BrCH ₂ CO ₂ Et in Me ₂ CO at reflux in the presence of KOH (optionally followed by hydrolysis), and where X = CO ₂ R, by reaction of 2-chloro-3,4-dihydro-3-oxo-2H-1,4-benzothiazine with P(OEt) ₃ at 100.degree. and sequentially treating the product with CO(CO ₂ Et) ₂ in EtOH contg. EtONa and with BrCH ₂ CO ₂ Et in Me ₂ CO-KOH.				
IT	55043-52-2P				
	RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction of, with ethyl bromoacetate)				
RN	55043-52-2 CAPLUS				
CN	Propanedioic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, diethyl ester (9CI) (CA INDEX NAME)				



IT 13677-06-0 54255-33-3
 RL: RCT (Reactant)
 (reaction of, with ethyl bromoacetate)
 RN 13677-06-0 CAPLUS
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl
 ester (9CI) (CA INDEX NAME)

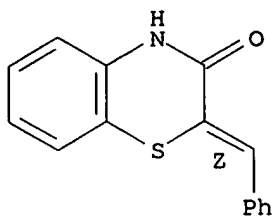


RN 54255-33-3 CAPLUS
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl
 ester (9CI) (CA INDEX NAME)



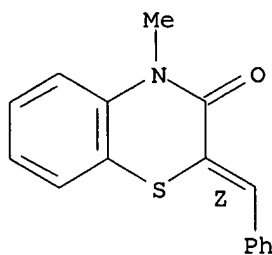
L14 ANSWER 55 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1975:443441 CAPLUS
 DOCUMENT NUMBER: 83:43441
 TITLE: 2-Dialkylphosphonyl- and 2-alkylidene-3,4-dihydro-3-oxo-2H-1,4-benzothiazines
 AUTHOR(S): Worley, J. W.; Ratts, K. Wayne; Cammack, K. L.
 CORPORATE SOURCE: Res. Dep., Monsanto Agric. Prod. Co., St. Louis, Mo., USA
 SOURCE: J. Org. Chem. (1975), 40(12), 1731-4
 CODEN: JOCEAH
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Benzothiazinylphosphonates [I, R = H, Me, CH₂CO₂Et; R₁ = P(O)(OEt)₂] were prepd. by the Michaelis-Arbuzov reaction of P(OEt)₃ with I(R₁ = Cl). I [R₁ = P(O)(OEt)₂] reacts with R₂CHO (R₂ = H, Ph, substituted phenyl, 2-thienyl, 9-anthryl, PhCH:CH) to give (Z)-II.
 IT 55043-20-4P 55043-21-5P 55043-22-6P
 55043-23-7P 55043-24-8P 55043-25-9P
 55043-26-0P 55043-28-2P 55043-29-3P
 55043-30-6P 55043-31-7P 55043-51-1P
 55043-52-2P 55043-53-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 55043-20-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)-, (Z)- (9CI) (CA
 INDEX
 NAME)

Double bond geometry as shown.



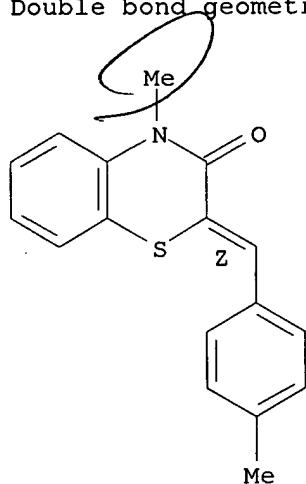
RN 55043-21-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)-, (Z)- (9CI)
 (CA INDEX NAME)

Double bond geometry as shown.



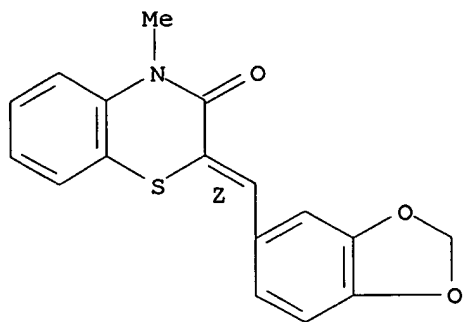
RN 55043-22-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(4-methylphenyl)methylene]-,
 (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



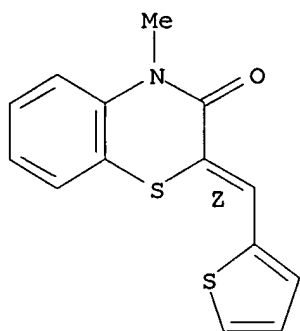
RN 55043-23-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-(1,3-benzodioxol-5-ylmethylene)-4-methyl-
 , (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



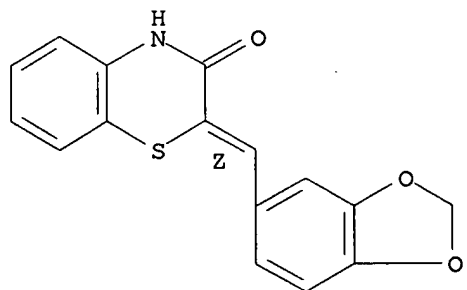
RN 55043-24-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(2-thienylmethylene)-, (Z)-
 (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 55043-25-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1,3-benzodioxol-5-ylmethylene)-, (Z)-
 (9CI) (CA INDEX NAME)

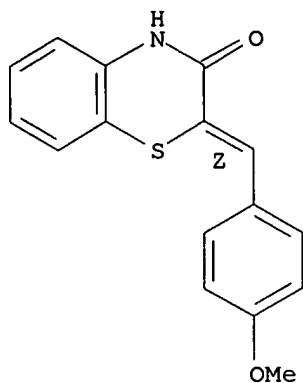
Double bond geometry as shown.



proviso.

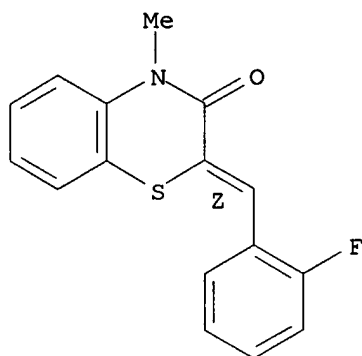
RN 55043-26-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-methoxyphenyl)methylene]-, (Z)-
 (9CI) (CA INDEX NAME)

Double bond geometry as shown.



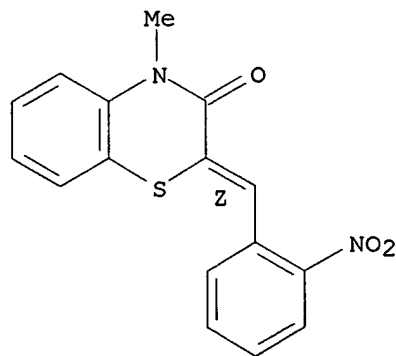
RN 55043-28-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-fluorophenyl)methylene]-4-methyl-,
 (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



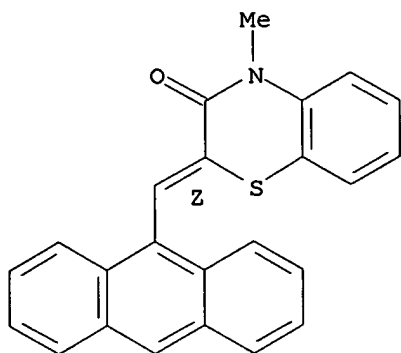
RN 55043-29-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[(2-nitrophenyl)methylene]-,
 (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



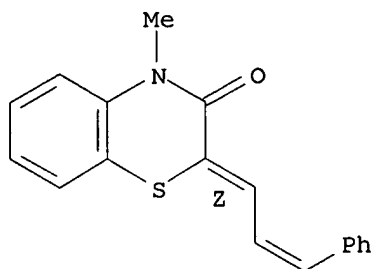
RN 55043-30-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(9-anthracenylmethylene)-4-methyl-, (Z)-
 (9CI) (CA INDEX NAME)

Double bond geometry as shown.

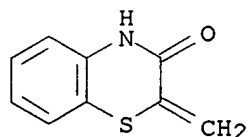


RN 55043-31-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(3-phenyl-2-propenylidene)-,
 (Z,?) - (9CI) (CA INDEX NAME)

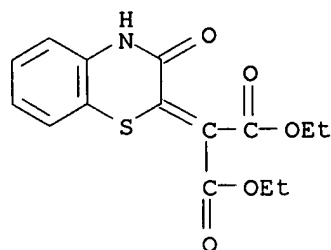
Double bond geometry as described by E or Z.



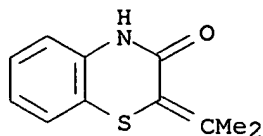
RN 55043-51-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-methylene- (9CI) (CA INDEX NAME)



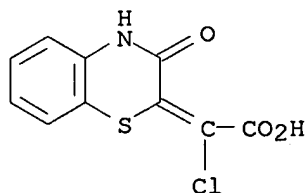
RN 55043-52-2 CAPLUS
 CN Propanedioic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-,
 diethyl ester (9CI) (CA INDEX NAME)



RN 55043-53-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(1-methylethylidene)- (9CI) (CA INDEX
 NAME)



L14 ANSWER 56 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1975:141592 CAPLUS
 DOCUMENT NUMBER: 82:141592
 TITLE: Heterocyclic coloring matters. II.
 .DELTA.2,2-Bi(2H-1,4-benzothiazines)
 AUTHOR(S): Kaul, B. L.
 CORPORATE SOURCE: Dyes Dep.-Dyes Chem. Res., Sandoz Ltd., Basel, Switz.
 SOURCE: Helv. Chim. Acta (1974), 57(8), 2664-78
 CODEN: HCACAV
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Dyes (I, R = H, Br, Cl, Me, MeO, CF₃; R₁=H, Me, MeO, EtO) having the .DELTA.2,2'-bi(3,4-dihydro-3-oxo-2H-1,4-benzothiazine) chromophore were prepd. by the one-step reaction of 2,3-dichloromaleic acid [1122-17-4] with zinc salts of o-aminobenzenethiol derivs. The structure, substitution reactions, mechanism of formation, color, and other relevant properties of the system were detd. and compared to known thioindigos. A synthesis of the basic skeleton of one of the Trichosiderins, the coloring matter of human red hair was described.
 IT 54392-69-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 54392-69-7 CAPLUS
 CN Acetic acid, chloro(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-(9CI) (CA INDEX NAME)



L14 ANSWER 57 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1975:140162 CAPLUS
 DOCUMENT NUMBER: 82:140162
 TITLE: 2-Arylmethylene-1,4-benzothiazin-3(4H)-ones
 INVENTOR(S): Anzai, Naomichi; Ishii, Tadao; Shibata, Uichi; Seki, Shigeo
 SOURCE: Japan. Kokai, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49101389	A2	19740925	JP 1973-15660	19730209

JP 57053350 B4 19821112

GI For diagram(s), see printed CA Issue.

AB Title compds. I (R = Ph, MeOC₆H₄, O₂NC₆H₄, BrC₆H₄, ClC₆H₄, Cl₂C₆H₃, thienyl, furyl) are prepd. by condensation of 2H-1,4-benzothiazin-3(4H)-one (II) and arom. aldehydes. I had antiinflammatory effect in rats and were effective against HeLa cells and Trichomonas vaginalis. Thus, 1.7 g II was dissolved in 100 ml 2% KOH-EtOH and heated with 1.1 g BzH at 70.degree. for 2 hr to give 82.6% I (R = Ph). Among 8 more I prepd. were those where R = o-MeOC₆H₄, p-O₂NC₆H₄, 2,4-Cl₂C₆H₃, and 2-thienyl.

IT 24545-07-1P 50393-32-3P 54874-53-2P

54874-54-3P 54874-55-4P 54874-62-3P

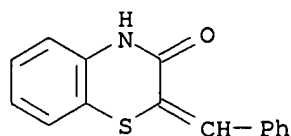
54874-84-9P 54874-85-0P 54913-29-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

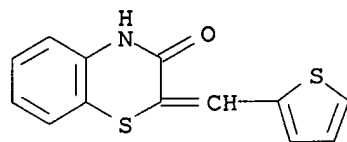
RN 24545-07-1 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



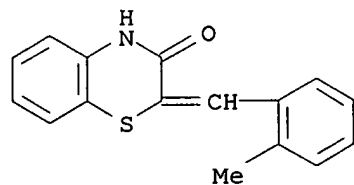
RN 50393-32-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thienylmethylene)- (9CI) (CA INDEX NAME)



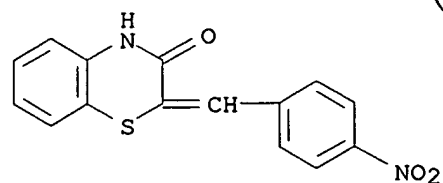
RN 54874-53-2 CAPLUS

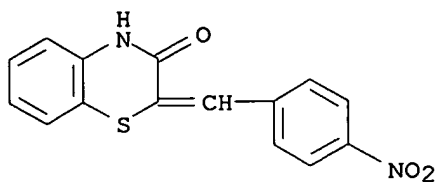
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2-methylphenyl)methylene]- (9CI) (CA INDEX NAME)



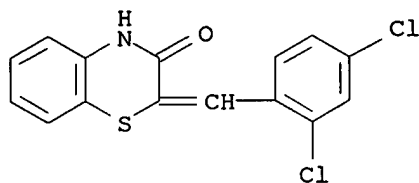
RN 54874-54-3 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-nitrophenyl)methylene]- (9CI) (CA INDEX NAME)

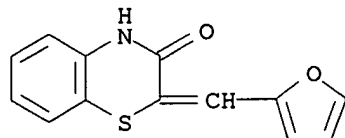




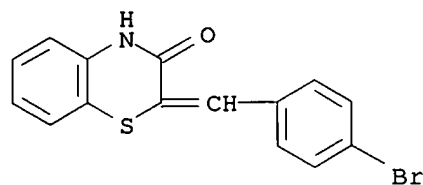
RN 54874-55-4 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(2,4-dichlorophenyl)methylene]- (9CI)
 (CA INDEX NAME)



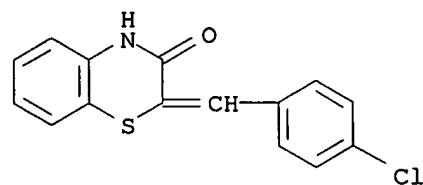
RN 54874-62-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-furanylmethylene)- (9CI) (CA INDEX
 NAME)



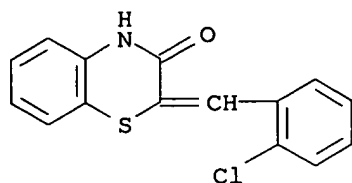
RN 54874-84-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-bromophenyl)methylene]- (9CI) (CA
 INDEX NAME)



RN 54874-85-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(4-chlorophenyl)methylene]- (9CI) (CA
 INDEX NAME)



RN 54913-29-0 CAPLUS



L14 ANSWER 58 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1974:552071 CAPLUS

DOCUMENT NUMBER: 81:152071

TITLE: Fungicides. XXIV. Reaction of 5-methoxycarbonylmethylidene-2-thioxo(or oxo)-4-thiazolidones with o-aminobenzenethiol and other thiols

AUTHOR(S): Nagase, Hiroshi

CORPORATE SOURCE: Agric. Chem. Div., Takeda Chem. Ind., Ltd., Osaka, Japan

SOURCE: Chem. Pharm. Bull. (1974), 22(1), 42-9

CODEN: CPBTAL

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB A novel addn. reaction of .omicron.-aminobenzenethiol to 5-methoxycarbonylmethylene-2-thioxo-(or oxo)-4-thiazolidones (I) gave 3-methyl (or benzyl)-5-(3-oxo-2,3-dihydro-4H-1,4-benzothiazin-2-yl)-2-thioxo(or oxo)-4-thiazolidones (II). I also reacted with thiols to afford

1:1 adducts (III and IV) in the presence of a catalytic amt. of NEt₃. Thermal cyclization of the adducts III to II was observed. The adducts

IV dissocd. into I and thiols when heated above their m.p. or dissolved in acetone or ethanol. Oxidn. of II and IV gave the dehydro-compds. V and VI, resp.

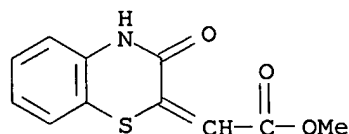
IT 54255-33-3

RL: RCT (Reactant)

(reaction with triethylammonium benzyldithiocarbamate)

RN 54255-33-3 CAPLUS

CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester (9CI) (CA INDEX NAME)



L14 ANSWER 59 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1973:542782 CAPLUS

DOCUMENT NUMBER: 79:142782

TITLE: 4-[3-(Dimethylamino)propyl]-3,4-dihydro-2-(1-hydroxyethyl)-3-phenyl-2H-1,4-benzothiazine and related compounds. New class of antiinflammatory agents

AUTHOR(S): Krapcho, John; Turk, Chester F.

CORPORATE SOURCE: Squibb Inst. Med. Res., Princeton, N. J., USA
SOURCE: J. Med. Chem. (1973), 16(7), 776-9
CODEN: JMCMAR
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Several of 23 benzothiazines synthesized show significant antiinflammatory

activity in rats, the most potent being 4-[3-(dimethylamino)propyl]-3,4-dihydro-2-(1-hydroxyethyl)-3-phenyl-2H-1,4-benzothiazine-HCl (I-HCl) [42585-60-4] and

2-acetyl-4-[3-(dimethylamino)propyl]-3,4-dihydro-3-phenyl-2H-1,4-benzothiazine-HCl (II-HCl) [42381-03-3]. I and II inhibited carrageenin-induced rat paw edema at 55 and 65 mg/kg orally, respectively.

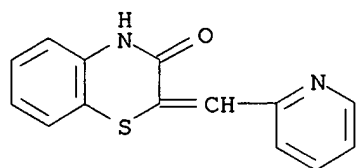
To synthesize I, 2-aminobenzenethiol [137-07-5] was condensed with chloroacetic acid [79-11-8] to form 1,4-benzothiazin-3(4H)-one [5325-20-2], then with BzH to form the 2-benzylidene deriv. and with 3-dimethylaminopropyl chloride [109-54-6] to attach the side chain. Interaction with MeMgBr followed by aq. NH₄Cl and heating resulted in rearrangement to II, redn. of which with NaBH₄ yielded I.

IT 33216-62-5P 50346-41-3P 50346-42-4P
50346-43-5P 50393-32-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

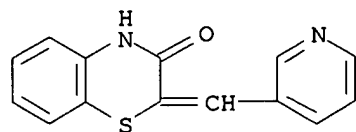
RN 33216-62-5 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)



RN 50346-41-3 CAPLUS

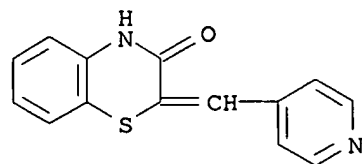
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(3-pyridinylmethylene)- (9CI) (CA INDEX NAME)



prev.

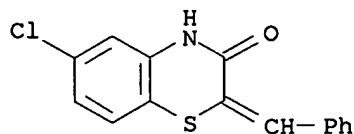
RN 50346-42-4 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(4-pyridinylmethylene)- (9CI) (CA INDEX NAME)

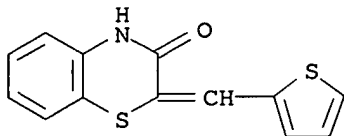


RN 50346-43-5 CAPLUS

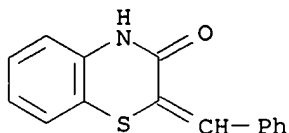
CN 2H-1,4-Benzothiazin-3(4H)-one, 6-chloro-2-(phenylmethylene)- (9CI) (CA



RN 50393-32-3 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-thienylmethylene)- (9CI) (CA INDEX NAME)



IT 24545-07-1
 RL: RCT (Reactant)
 (reaction of, with dimethylaminopropyl chloride)
 RN 24545-07-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



L14 ANSWER 60 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1973:124527 CAPLUS
 DOCUMENT NUMBER: 78:124527
 TITLE: Reaction of the Vilsmeier product,
 3-chloro-2-dimethylaminomethylene-1,4-benzothiazene,
 with aromatic amines and active methylene compounds
 AUTHOR(S): Shah, S. R.; Seshadri, S.
 CORPORATE SOURCE: Dep. Chem. Technol., Univ. Bombay, India
 SOURCE: Indian J. Chem. (1972), 10(10), 977-81
 CODEN: IJOCAP
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB The reaction of 3-chloro-2-dimethylaminomethylene-1,4-benzothiazine (I) with aromatic amines in HOAc was studied. The reaction with aniline and with p-chloroaniline in the presence of pyridine gave 2-anilinomethylene-1,4-benzothiazin-3(4H)-ones (II, R = H, Cl, resp.) and the 2-formyl-3-anilino-1,4-benzothiazines (III, R = H, Cl, resp.). The reaction with weakly basic aromatic amines proceeded directly (without involving rearrangement) to give anilinomethylenebenzothiazinones. The reaction of I with some active methylene compds. in HOAc in the presence of pyridine was studied.
 IT 41526-80-1P 41526-81-2P 41526-85-6P
 41526-86-7P 41526-87-8P 41526-88-9P
 41526-89-0P 41526-90-3P 41526-91-4P
 41526-92-5P 41526-93-6P 41526-94-7P

41526-95-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

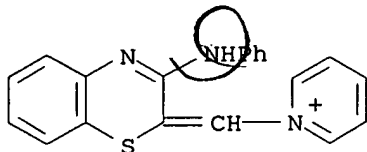
RN 41526-80-1 CAPLUS

CN Pyridinium, 1-[[3-(phenylamino)-2H-1,4-benzothiazin-2-ylidene]methyl]-,
perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 50577-48-5

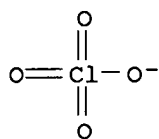
CMF C20 H16 N3 S



CM 2

CRN 14797-73-0

CMF Cl O4



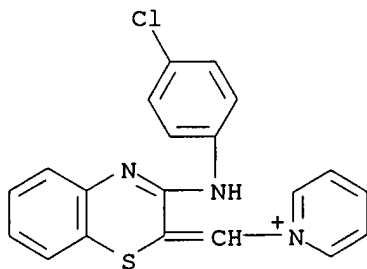
RN 41526-81-2 CAPLUS

CN Pyridinium, 1-[[3-[(4-chlorophenyl)amino]-2H-1,4-benzothiazin-2-ylidene]methyl]-,
perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 48209-78-5

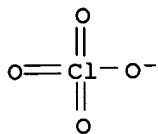
CMF C20 H15 Cl N3 S



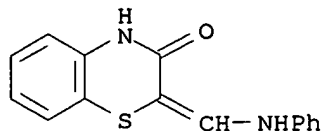
CM 2

CRN 14797-73-0

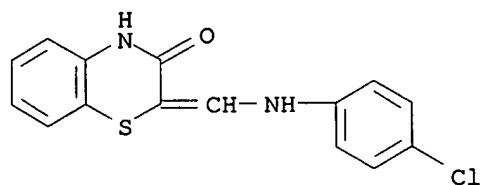
CMF Cl O4



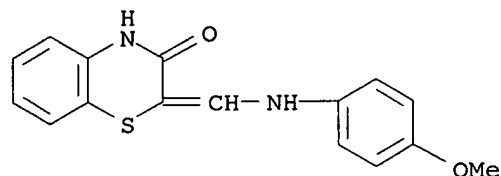
RN 41526-85-6 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(phenylamino)methylene]- (9CI) (CA INDEX NAME)



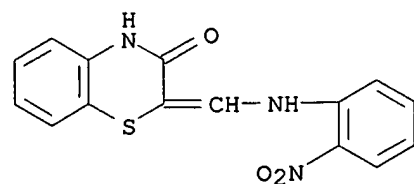
RN 41526-86-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-chlorophenyl) amino]methylene]- (9CI)
 (CA INDEX NAME)



RN 41526-87-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(4-methoxyphenyl) amino]methylene]- (9CI) (CA INDEX NAME)

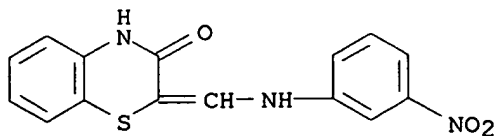


RN 41526-88-9 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(2-nitrophenyl) amino]methylene]- (9CI)
 (CA INDEX NAME)

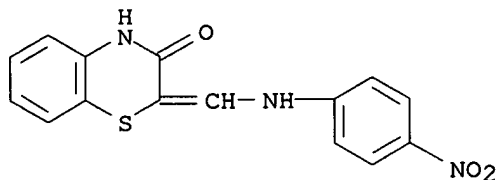


RN 41526-89-0 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[(3-nitrophenyl) amino]methylene]- (9CI)

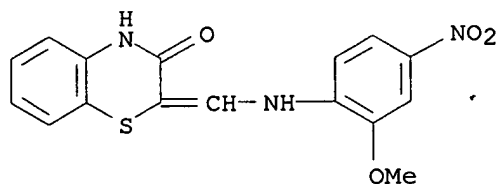
(CA INDEX NAME)



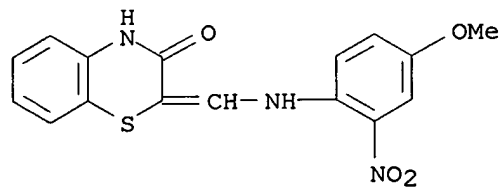
RN 41526-90-3 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-nitrophenyl]amino]methylene]- (9CI)
(CA INDEX NAME)



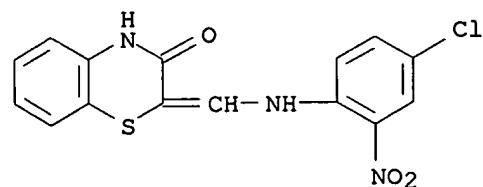
RN 41526-91-4 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[2-methoxy-4-nitrophenyl]amino]methylene]- (9CI) (CA INDEX NAME)

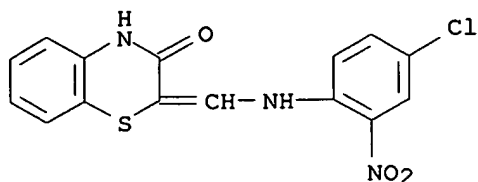


RN 41526-92-5 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-methoxy-2-nitrophenyl]amino]methylene]- (9CI) (CA INDEX NAME)

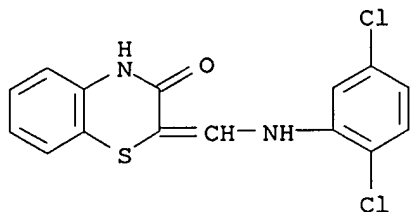


RN 41526-93-6 CAPLUS
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[4-chloro-2-nitrophenyl]amino]methylene]- (9CI) (CA INDEX NAME)

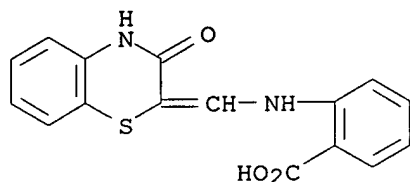




RN 41526-94-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[[2-(2,5-dichlorophenyl)amino]methylene]-
 (9CI) (CA INDEX NAME)



RN 41526-95-8 CAPLUS
 CN Benzoic acid, 2-[[2-[(3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)methyl]amino]-
 (9CI) (CA INDEX NAME)



~~114~~ ANSWER 61 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1973:84341 CAPLUS

DOCUMENT NUMBER: 78:84341

TITLE: Reactions of Vilsmeier product, 3-chloro-2-dimethylaminomethylene-1,4-benzothiazine derived from 1,4-benzothiazin-3(4H)-one

AUTHOR(S): Shah, S. R.; Seshadri, S.

CORPORATE SOURCE: Dep. Chem. Technol., Univ. Bombay, Matunga, India

SOURCE: Indian J. Chem. (1972), 10(8), 820-2

CODEN: IJOCAP

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB The properties of 3-chloro-2-(dimethylaminomethylene)-1,4-benzothiazine (I, R = Cl) (II) [the Vilsmeier product derived from 1,4-benzothiazin-3(4H)-one] are described. Hydrolysis under different conditions gave 1,4-benzothiazine-2-carboxylic acid (III, R = H, R1 = CO2H), 1,4-benzothiazin-3(4H)-one-2-carboxaldehyde, or 3-chloro-1,4-benzothiazine-2-carboxaldehyde III (R = H, R1 = CHO), depending on the method of hydrolysis. Reaction of the perchlorate of II with pyridine leads to the selective attack at the aminomethylene function yielding a pyridinium salt

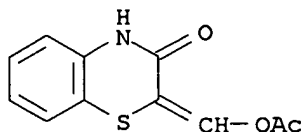
(IV), but reaction with Me2SO leads to the displacement of chlorine yielding a dimethylsulphoxonium deriv. I (R = Me2S+O)ClO4-. Reaction of

II with NaOAc or KCN in HOAc gave the benzothiazinones (V, R = OAc, CN, resp.).

IT **39974-42-0P 39974-43-1P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

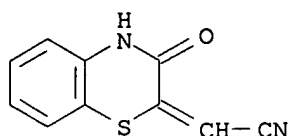
RN 39974-42-0 CAPLUS

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[(acetyloxy)methylene]- (9CI) (CA INDEX NAME)



RN 39974-43-1 CAPLUS

CN Acetonitrile, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)- (9CI)
 (CA INDEX NAME)



~~144~~ ANSWER 62 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1972:461922 CAPLUS

DOCUMENT NUMBER: 77:61922

TITLE: Reaction of 2-aminothiophenol with dimethyl acetylenedicarboxylate

AUTHOR(S): Maki, Yoshifumi; Suzuki, Mikio

CORPORATE SOURCE: Gifu Coll. Pharm., Gifu, Japan

SOURCE: Chem. Pharm. Bull. (1972), 20(4), 832-4
 CODEN: CPBTAL

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

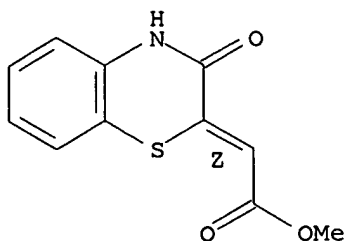
AB Osc-H₂NC₆H₄SH (I) and MeO₂CC.tplbond.CCO₂Me (II) gave benzothiazine (trans-III) (IV), which was photochem. isomerized to cis-III (V). Hydrogenation of IV gave VI. Photochem. addn. of I and II gave IV, V, and di-Me fumarate, as well as other products.

IT **37893-72-4P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 37893-72-4 CAPLUS

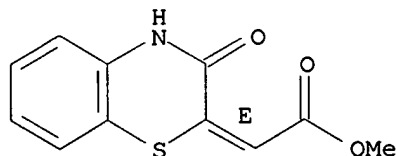
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L14 ANSWER 63 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1972:461917 CAPLUS
 DOCUMENT NUMBER: 77:61917
 TITLE: Aminobenzenes. VIII. Rearrangement of phenyl carbamates. Syntheses of 2,4-dioxo-3,4-dihydro-2H-1,3-benzoxazines and salicylamides
 AUTHOR(S): Effenberg, Franz; Niess, Rolf; Schick, Max
 CORPORATE SOURCE: Inst. Org. Chem., Univ. Stuttgart, Stuttgart, Ger.
 SOURCE: Chem. Ber. (1972), 105(6), 1926-42
 CODEN: CHBEAM
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 GI For diagram(s), see printed CA Issue.
 AB Thermal rearrangement of N-aryl-substituted m-RC6H4O2CNHR1 (I, R = pyrrolidinyl, piperidino, or Me2N; R1 = Ph, Bz, or p-ClC6H4CO) obtained from m-RC6H4OH and R1NCO gave 4,2-R(HO)C6H3-CONHR1 (II), whereas N-alkoxy-substituted I gave 2,4-dioxo-3,4-dihydro-2H-1,3-benzoxazines (III). III were cleaved by dil. KOH with CO2 evolution to give II (R1 = H). The mechanism of this Fries rearrangement-like reaction involving an intramol. path is discussed.
 IT **37893-32-6P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 37893-32-6 CAPLUS
 CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

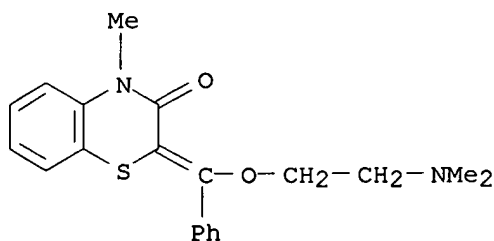
Double bond geometry as shown.



L14 ANSWER 64 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1972:419657 CAPLUS
 DOCUMENT NUMBER: 77:19657
 TITLE: 2-[.alpha. [.omega.-(Dimethylamino)alkoxy]benzylidene]-4-methyl-2H-1,4-benzothiazin-3(4H)-ones
 INVENTOR(S): Krapcho, John
 PATENT ASSIGNEE(S): Squibb, E. R., and Sons, Inc.
 SOURCE: Ger. Offen., 29 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1

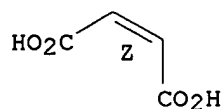
PATENT INFORMATION:

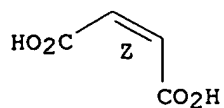
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2150661	A	19720413	DE 1971-2150661	19711011
US 3715353	A	19730206	US 1970-80196	19701012
CH 561710	A	19750515	CH 1971-14807	19711011
FR 2110376	A5	19720602	FR 1971-36633	19711012
FR 2110376	B1	19750207		
HU 163946	P	19731128	HU 1971-SU678	19711012
JP 55018707	B4	19800521	JP 1971-80490	19711012
GB 1373537	A	19741113	GB 1971-47261	19711111
PRIORITY APPLN. INFO.:			US 1970-80196	19701012
GI	For diagram(s), see printed CA Issue.			
AB	Two title compds. (I, n = 2 or 3), useful as antidepressants, were prepd. by ring closure of o-H ₂ NC ₆ H ₄ SH and ClCH ₂ CO ₂ H, N-methylation, benzylation, and aminoalkylation. Thus, ClCH ₂ CO ₂ H was added to o-H ₂ NC ₆ H ₄ SH in NaOH at <30.degree. and the mixt. refluxed 4 hr to give 82% II. NaH and then Me ₂ SO ₄ were added to II in DMF at <30.degree., and the mixt. was heated 2 hr at 100-5.degree. to give 74% III. NaH was added to III and BzOMe in Me ₂ SO and the mixt. heated 3 hr at 70-5.degree. to give 90% IV. NaH was added to IV in DMF, the mixt. heated at 45.degree., Me ₂ NCH ₂ CH ₂ Cl in PhMe and then NaI were added at 25.degree., and the mixt. was heated 3 hr at 100-5.degree. to give I (n = 2), which was pptd. as hydrochloride and recrystd. as maleate in 31% yield.			
IT	37142-84-0P 37142-85-1P 37142-86-2P RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)			
RN	37142-84-0 CAPLUS			
CN	2H-1,4-Benzothiazin-3(4H)-one, 2-[[2-(dimethylamino)ethoxy]phenylmethylene]-4-methyl-, (2Z)-2-butenedioate (9CI) (CA INDEX NAME)			
CM	1			
CRN	47451-15-0			
CMF	C20 H22 N2 O2 S			



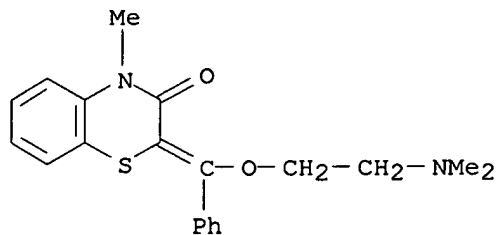
CM 2
CRN 110-16-7
CMF C4 H4 O4
CDES 2:Z

Double bond geometry as shown.





RN 37142-85-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[2-(dimethylamino)ethoxy]phenylmethylene
]-4-methyl-, hydrochloride (9CI) (CA INDEX NAME)

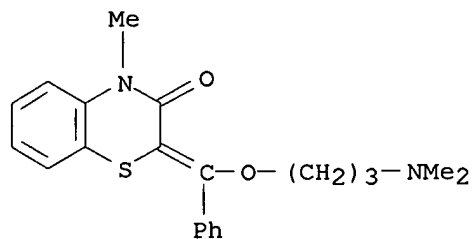


● x HCl

RN 37142-86-2 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one,
 2-[[3-(dimethylamino)propoxy]phenylmethylen
 e]-4-methyl-, (2Z)-2-butenedioate (9CI) (CA INDEX NAME)

CM 1

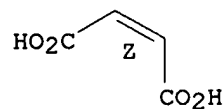
CRN 47494-87-1
 CMF C21 H24 N2 O2 S



CM 2

CRN 110-16-7
 CMF C4 H4 O4
 CDES 2:Z

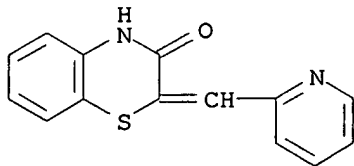
Double bond geometry as shown.



L14 ANSWER 65 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1971:476816 CAPLUS
 DOCUMENT NUMBER: 75:76816
 TITLE: Substituted 2H-1,4-benzothiazine derivatives
 INVENTOR(S): Krapcho, John
 PATENT ASSIGNEE(S): Squibb, E. R., and Sons, Inc.
 SOURCE: Ger. Offen., 40 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2051474	A	19710506	DE 1970-2051474	19701020
BR 6915342	A0	19730313	BR 1969-215342	19691219
US 3746706	A	19730717	US 1970-35590	19700507
HU 163349	P	19730728	HU 1970-SU569	19701022
NL 7015698	A	19710503	NL 1970-15698	19701027
CH 543512	A	19731214	CH 1970-15877	19701027
FR 2070172	A1	19710910	FR 1970-38889	19701028
FR 2070172	A5	19710910		
GB 1334793	A	19731024	GB 1970-49269	19701028
CA 948626	A1	19740604	CA 1970-96805	19701028
JP 50022557	B4	19750731	JP 1970-95067	19701028
BE 774835	A1	19720503	BE 1971-110068	19711103
PRIORITY APPLN. INFO.:			US 1969-871976	19691028
			US 1970-35590	19700507

GI For diagram(s), see printed CA Issue.
 AB Reacting I with R3MgBr gave antiinflammatory II. I (R1 = C2H4NMe2, R2 = Ph, Y = S) was treated with MeMgBr in THF at 20.degree. to yield II (R1 = C2H4NMe2, R2 = Ph, R3 = Ac, Y = S). An addnl. 16 examples involve this rearrangement in prepn.
 IT **33216-62-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 33216-62-5 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-pyridinylmethylene)- (9CI) (CA INDEX NAME)



Same as previous

L14 ANSWER 66 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1971:449005 CAPLUS
 DOCUMENT NUMBER: 75:49005
 TITLE: Synthesis and central nervous system effects of some benzothiazinones
 AUTHOR(S): Heindel, Ned D.; Reid, Jack R.; Willis, Joseph E.
 CORPORATE SOURCE: Dep. Chem., Lehigh Univ., Bethlehem, Pa., USA
 SOURCE: J. Med. Chem. (1971), 14(5), 453
 CODEN: JMCMAR
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.

AB Six 2-carbomethoxy-methylene-3,4-dihydro-3-oxo-2H-benzo-1,4-thiazines
were

synthesized by condensing o-aminothiophenols with di-Me acetylene-dicarboxylate in MeOH, and tested in a neuropharmacol. mouse profile. Compd. I was inactive and nontoxic at doses of 1000 mg/kg, whereas compd. II induced a low order of sedativehypnotic activity at

1000

mg/kg but not at 300 mg/kg, is reflected in a depression of spontaneous motor activity and body tone and increases in passivity and pupil size. The most active compd. was III which induced depression, catatonia, and decreased motor activity at doses as low as 100 mg/kg.

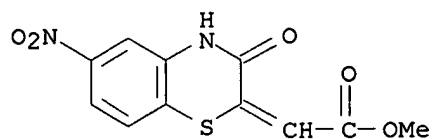
IT 31385-17-8P 31385-18-9P 32723-06-1P

32723-08-3P 32816-83-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

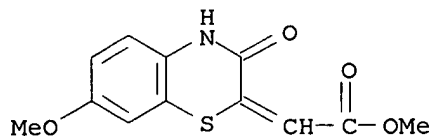
RN 31385-17-8 CAPLUS

CN Acetic acid, (3,4-dihydro-6-nitro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-,
methyl ester (9CI) (CA INDEX NAME)



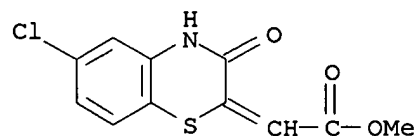
RN 31385-18-9 CAPLUS

CN Acetic acid,
(3,4-dihydro-7-methoxy-3-oxo-2H-1,4-benzothiazin-2-ylidene)-,
methyl ester (9CI) (CA INDEX NAME)



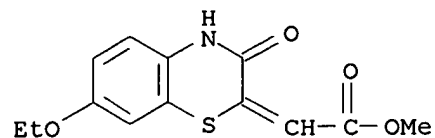
RN 32723-06-1 CAPLUS

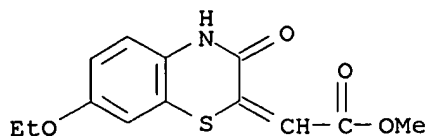
CN 2H-1,4-Benzothiazine-.DELTA.2,.alpha.-acetic acid,
6-chloro-3,4-dihydro-3-
oxo-, methyl ester (8CI) (CA INDEX NAME)



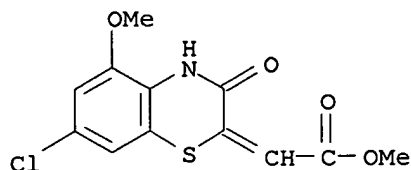
RN 32723-08-3 CAPLUS

CN 2H-1,4-Benzothiazine-.DELTA.2,.alpha.-acetic acid,
7-ethoxy-3,4-dihydro-3-
oxo-, methyl ester (8CI) (CA INDEX NAME)

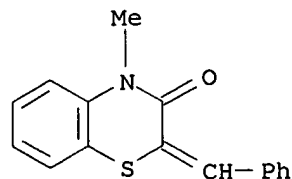




RN 32816-83-4 CAPLUS
 CN 2H-1,4-Benzothiazine-.DELTA.2,.alpha.-acetic acid,
 7-chloro-3,4-dihydro-5-
 methoxy-3-oxo-, methyl ester (8CI) (CA INDEX NAME)

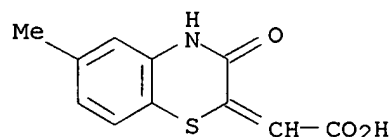


~~114~~ ANSWER 67 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1971:53750 CAPLUS
 DOCUMENT NUMBER: 74:53750
 TITLE: Synthesis of 1,5-benzothiazepine derivatives. II
 AUTHOR(S): Kugita, Hiroshi; Inoue, Hirozumi; Ikezaki, Muneyoshi;
 Konda, Mikihiro; Takeo, Satoshi
 CORPORATE SOURCE: Org. Chem. Res. Lab., Tanabe Seiyaku Co., Ltd.,
 Saitama, Japan
 SOURCE: Chem. Pharm. Bull. (1970), 18(11), 2284-9
 CODEN: CPBTAL
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Et threo-2-hydroxy-3-aryl-(2-nitroarylthio)propionates (I) (aryl =
 4-RC₆H₄, R = H or p-MeO) were obtained by the reaction of
 4,2-X(O₂N)C₆H₃OH
 (X = H or Cl) and Et arylglycidates (aryl = 4-RC₆H₄, R = H or p-MeO) in
 the
 presence of catalytic amt. of NaHCO₃. I was converted into
 1,5-benzothiazepine derivs. (II), the configuration of which was
 2,3-trans.
 IT 30752-17-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 30752-17-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-(phenylmethylene)- (9CI) (CA
 INDEX NAME)

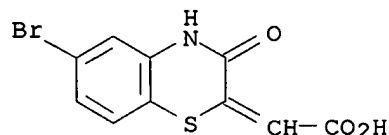


~~114~~ ANSWER 68 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1971:42325 CAPLUS
 DOCUMENT NUMBER: 74:42325

TITLE: Organic sulfur compounds. VII. Reactions of benzothiazine hydroxamic acids
 AUTHOR(S): Coutts, Ronald T.; Matthias, Sharon J.; Mah, E.; Pound, N. J.
 CORPORATE SOURCE: Fac. Pharm. Sci., Univ. Alberta, Edmonton, Alberta, Can.
 SOURCE: Can. J. Chem. (1970), 48(23), 3727-32
 CODEN: CJCHAG
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Treatment of (3,4-dihydro-4-hydroxy-3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid (I) with NaOH yields the corresponding lactam, i.e. (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid, together with the .alpha.,.beta.-unsatd. acid, 3,4-dihydro-3-oxo-2H-1,4-benzothiazine-.DELTA.2,.alpha.-acetic acid. The 6-Me and 6-Br derivs. of I behaved similarly when treated with NaOH but when 3,4-dihydro-4-hydroxy-3-oxo-2H-1,4-benzothiazine was so treated a more complex reaction occurred. Me (6-bromo-3,4-dihydro-4-hydroxy-3-oxo-2H-1,4-benzothiazin-2-yl)-acetate was also treated with HCl. The 2 products isolated were (6-bromo-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid and (6-bromo-7-chloro-3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-yl)acetic acid. The action of HCl on 3,4-dihydro-4-hydroxy-7-methyl-3-oxo-2H-1,4-benzothiazine also gave 2 products. One was the corresponding lactam; the other was unexpected and has been tentatively identified as bis[2-(3,4-dihydro-7-methyl-3-oxo-2H-1,4-benzothiazine)].
 IT 30321-26-7P 30321-95-0P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 30321-26-7 CAPLUS
 CN 2H-1,4-Benzothiazine-.DELTA.2,.alpha.-acetic acid, 3,4-dihydro-6-methyl-3-oxo- (8CI) (CA INDEX NAME)

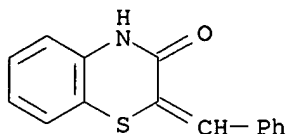


RN 30321-95-0 CAPLUS
 CN 2H-1,4-Benzothiazine-.DELTA.2,.alpha.-acetic acid, 6-bromo-3,4-dihydro-3-oxo- (8CI) (CA INDEX NAME)



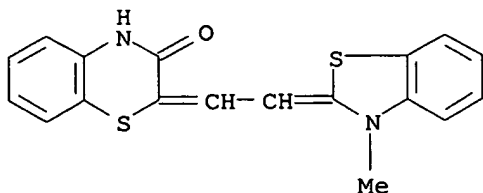
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 114 ANSWER 69 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1971:13117 CAPLUS
 DOCUMENT NUMBER: 74:13117
 TITLE: Synthesis of 1,5-benzothiazepine derivatives. I
 AUTHOR(S): Kugita, Hiroshi; Inoue, Hirozumi; Ikezaki, Muneyoshi; Takeo, Satoshi
 CORPORATE SOURCE: Org. Chem. Res. Lab., Tanabe Seiyaku Co., Ltd.,

Saitama, Japan
 SOURCE: Chem. Pharm. Bull. (1970), 18(10), 2028-37
 CODEN: CPBTAL
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Reaction of 2-aminothiophenol and Et phenylglycidate gave Et 2-hydroxy-3-(2-aminophenylthio)-3-phenylpropionate (I) and 2-phenyl-3-hydroxy-2,3-dihydro-1,5-benzothiazepin-4(5H)-one (II). Hydrolysis of I gave the corresponding amino acid which was cyclized to II. The reaction of 2-nitrothiophenol and Et 3-(4-methoxyphenyl)glycidate was also studied. The rearrangement of II to III was obsd.
 IT **24545-07-1P**
 RL: FORM (Formation, nonpreparative); PREP (Preparation) (formation of, from dihydrohydroxyphenylbenzothiazepinone)
 RN 24545-07-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)

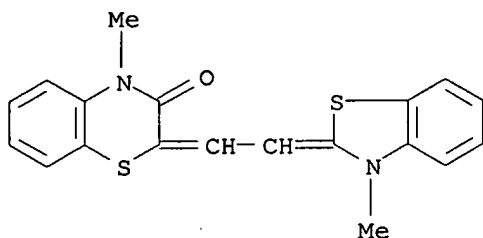


~~I~~14 ANSWER 70 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1970:457129 CAPLUS
 DOCUMENT NUMBER: 73:57129
 TITLE: Effect of alkali on 8-benzoylaminothiacarbocyanine iodide
 AUTHOR(S): Kiprianov, A. I.; Suleimanova, M. G.; Dyadyusha, G. G.
 CORPORATE SOURCE: Inst. Org. Khim., Kiev, USSR
 SOURCE: Ukr. Khim. Zh. (1970), 36(3), 269-72
 CODEN: UKZHAU
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI For diagram(s), see printed CA Issue.
 AB Bis(3-methylbenzothiazole-2)-8-benzoylaminothiacarbocyanine iodide (I) (0.5 g) yielded, after refluxing for 10 min with 0.1 g NaOH in 150 ml EtOH, evapn. of the solvent, and chromatographic purification on Al₂O₃ (C₆H₆ followed by CHCl₃), 0.12 g 2,3-dihydro-4-methyl-2[(3-methyl-2-benzothiazolinyldene)ethylidene]-1,4-benzothiazin-3-one (II), m. 206.degree.. II was prepd. for comparison by condensing o-MeNHC₆H₄SH with ClCH(CO₂Et)₂ in alc.-NEt₃ to form 2-carbethoxy-4-methyl-2,3-dihydro-1,4-benzothiazin-3-one (III), b₁ 198.degree., which was condensed with IV in boiling PhNEt₂ for 30 min. Using o-H₂NC₆H₄SH, the N-demethylated analogs of III, m. 145.degree., and of II, m. 274.degree., .lambda.max 444 nm (EtOH), were similarly prepd., but attempts to methylate the latter to II were unsuccessful. A mechanism for the formation of II was proposed.
 IT **28731-98-8P 29430-90-8P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 28731-98-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[2-(3-methyl-2-benzothiazolinyldene)ethylidene]- (8CI) (CA INDEX NAME)



RN 29430-90-8 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 4-methyl-2-[2-(3-methyl-2-benzothiazolinylidene)ethylidene]- (8CI) (CA INDEX NAME)



14 ANSWER 71 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1970:21702 CAPLUS
 DOCUMENT NUMBER: 72:21702
 TITLE: 2H-1,4-Benzothiazin-3(4H)-ones
 INVENTOR(S): Krapcho, John
 PATENT ASSIGNEE(S): Squibb, E. R., and Sons, Inc.
 SOURCE: Ger., Offen., 27 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1910302	A	19690925	DE 1969-1910302	19690228
US 3635956 105	A	19720118	US 1968-709808	19680301
GB 1265165	A	19720301	GB 1969-1265165	19690224
FR 2003038	A5	19691107	FR 1969-5409	19690228
FR 2003038	B1	19730810		
CH 493553	A	19700715	CH 1969-493553	19690228
JP 49010671	B4	19740312	JP 1969-15839	19690301
FR 2034449	A5	19701211	FR 1970-9282	19700316
FR 2034449	B1	19730810		

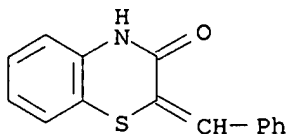
PRIORITY APPLN. INFO.: US 1968-709808 19680301

GI For diagram(s), see printed CA Issue.

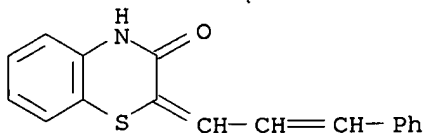
AB The title compds. I (Y = S), useful as tranquilizers, were obtained by treating benzothiazin-3-one (II), prepd. from 2-aminothiophenol (III) and chloroacetic acid (IV), with an aldehyde and reacting the alkylidenebenzothiazine with a dialkylaminoalkyl halide. Thus, 95 g IV in

300 ml PhMe was added to 250 g III in 500 ml PhMe with stirring, and the mixt. refluxed 3 hr to give 64% II, m. 179-81.degree.. II (45 g), 45 g BzH, and 100 ml Ac2O was heated, 50 ml Et3N added, and the mixt. refluxed 7 hr to give 68% 2-benzylidene-2H-1,4-benzothiazin-3(4H)-one (V), m. 203-5.degree.. Me2N(CH2)2Br (0.15 mole) in 200 ml PhMe was added to 4 g NaNH2 and 25.4 g V in 1 l. PhMe, the mixt. stirred 30 min at room temp. and then 4 hr at 60-5.degree.; treatment with HCl gave 56% I.HCl [X = H,

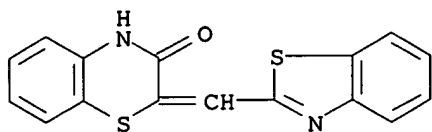
Y = S, ANB = Me2N(CH2)2, p = 0, R1 = Ph, (R2R3 =) O], m. 234-6.degree. (EtOH); the bromomethyl adduct, the 1-oxide, and the 1,1-dioxide were also
 prepd. Similarly prepd. were the following I.HCl [Y = S, (R2R3 =)O] (X, ANB, p, R1, % yield, and m.p. given): H, Me2N(CH2)3, 0, Ph, 70, 191-3.degree. (EtOH); H, Et2N(CH2)2, 0, Ph, -, 168-70.degree. (MeCN); H, Me2N(CH2)2, 1, Ph, -, 234-6.degree. (EtOH) (also reported was the corresponding .alpha.-methylcinnamylidene deriv.).
 2-Cinnamylidene-2H-1,4-benzothiazin-3(4H)-one, m. 268-70.degree. (HCONMe2), was prepd. and used as an intermediate.
 IT **24545-07-1P 24545-11-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 24545-07-1 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(phenylmethylene)- (9CI) (CA INDEX NAME)



RN 24545-11-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-cinnamylidene- (8CI) (CA INDEX NAME)



✓
 L44 ANSWER 72 OF 74 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1969:449871 CAPLUS
 DOCUMENT NUMBER: 71:49871
 TITLE: Structure and biogenesis of phaeomelanins. VII.
 Structure of trichosiderins
 AUTHOR(S): Nicolaus, Rodolfo A.; Prota, Giuseppe; Santacrose, Ciro; Scherillo, Giulia; Sica, Donato
 CORPORATE SOURCE: Univ. Napoli, Naples, Italy
 SOURCE: Gazz. Chim. Ital. (1969), 99(4), 323-50
 CODEN: GCITA9
 DOCUMENT TYPE: Journal
 LANGUAGE: Italian
 GI For diagram(s), see printed CA Issue.
 AB The structure of a yellow-orange pigment C23H20N4O9S2 (I), extd. by dil. alkali from the feathers of the New Hampshire strain chicken was detd. I,
 heated in the presence of acid, is decarboxylated easily, yielding C22H40N4O7S2, having spectral and chromatographic properties identical with those of trichosiderins extd. from red human hair. The chem. behavior of some model compds. with trichosiderin-like chromophore was also investigated.
 IT **23416-87-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 23416-87-7 CAPLUS
 CN 2H-1,4-Benzothiazin-3(4H)-one, 2-(2-benzothiazolylmethylene)- (8CI) (CA



~~174~~ ANSWER 73 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1968:12929 CAPLUS
 DOCUMENT NUMBER: 68:12929
 TITLE: Amidoalkylation of sulfazone
 AUTHOR(S): Borovik, V. P.; Mamaev, V. P.
 CORPORATE SOURCE: Inst. Org. Khim., Novosibirsk, USSR
 SOURCE: Khim. Geterotsikl. Soedin. (1967), (2), 277-80
 CODEN: KGSSAQ
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian

GI For diagram(s), see printed CA Issue.

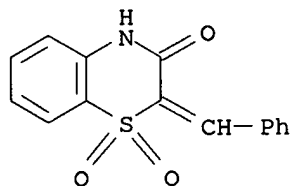
AB The title compd. (I) (2 g.) was dissolved at 120.degree. in a small amt. of AcOH, and 2.12 g. PhCH(NHAc)2 added, the mixt. heated 2 hrs., and AcOH evapd. To the residue ether was added followed by CHCl3 to give 41.5% 2-(.alpha.-acetamidobenzyl)sulfazone (II), m. 161-3.degree. (dioxane), To the CHCl3 filtrate petroleum ether was added to give 27% benzalsulfazone (III), m. 180.degree.. III was also obtained by heating I with BzH and Et3N 6 hrs. III with EtOH and 10% NaOH gave 64% 2-(.alpha.-ethoxybenzyl)sulfazone, m. 161-3.degree., and with MeOH gave 63% 2-(.alpha.-methoxybenzyl)sulfazone, m. 143-5.degree.. I (5 g.) with 5.31 g. PhCH(NHCONH2)2 was heated 2 hrs. to 125.degree. in 50 ml. AcOH, then AcOH evapd. in vacuo, MeOH added, and after few days 2-(.alpha.-ureidobenzyl)sulfazone (IV) m. 153-4.degree., pptd. in 41.5% yield. IV was also obtained in 21.8% yield by heating I with PhCH:NCONH2 in abs. EtOH with HCl. II hydrolyzed with 20% HCl gave 64% I.

IT **16684-63-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 16684-63-2 CAPLUS

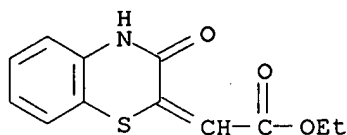
CN 2H-1,4-Benzothiazin-3(4H)-one, 2-benzylidene-, 1,1-dioxide (8CI) (CA INDEX NAME)



~~174~~ ANSWER 74 OF 74 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1967:94975 CAPLUS
 DOCUMENT NUMBER: 66:94975
 TITLE: On the structure of the product of the reaction of 2-aminothiophenol with diethyl acetylene dicarboxylate
 AUTHOR(S): Kalbag, S. M.; Nair, Mohann D.; Rajagopalan, Parthasarathy; Talaty, Chandravadan N.
 CORPORATE SOURCE: CIBA Res. Centre, Bombay, India
 SOURCE: Tetrahedron (1967), 23(4), 1911-14

CODEN: TETRAB
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The major product (m. 220-2.degree.) of the reaction of 2-aminothiophenol with (.tplbond.CCO2Et)2 was conclusively shown to be 2-ethoxycarbonylmethylene-3,4 - dihydro - 3 - oxo - 2H - benzo - 1,4 - thiazine (I) and not 3-(ethoxycarbonylmethylene)-3,4-dihydro-2-oxo-2H-benzo-1,4-thiazine (II) as reported. CA 59, 39161.
IT **13677-06-0P**
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
RN 13677-06-0 CAPLUS
CN Acetic acid, (3,4-dihydro-3-oxo-2H-1,4-benzothiazin-2-ylidene)-, ethyl ester (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 09:41:56 ON 19 MAY 2001)

FILE 'REGISTRY' ENTERED AT 09:42:02 ON 19 MAY 2001

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L2 QUE L1
L3 0 S L1
L4 STRUCTURE UPLOADED
L5 QUE L4
L6 39 S L4

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FILE 'REGISTRY' ENTERED AT 09:49:50 ON 19 MAY 2001

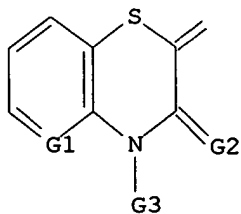
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L8 QUE L7
L9 5 S L7
L10 STRUCTURE UPLOADED
L11 QUE L10
L12 26 S L10
L13 470 S L10 FUL

FILE 'CAPLUS' ENTERED AT 09:52:42 ON 19 MAY 2001

L14 74 S L13

=> d l10

L10 HAS NO ANSWERS
L10 STR



G1 C,N

G2 O,S,N

G3 Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,H

Structure attributes must be viewed using STN Express query preparation.

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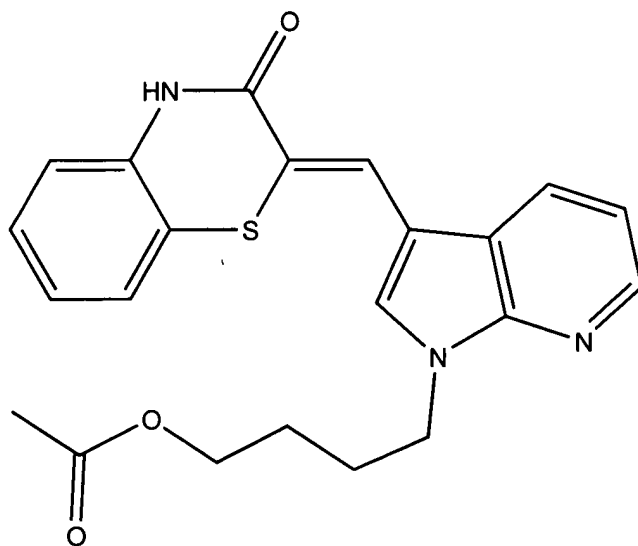
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	312.95	449.14
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-43.51	-43.51

STN INTERNATIONAL LOGOFF AT 09:58:13 ON 19 MAY 2001

2-(1-(4-acetoxybutyl)-7-azaindol-3-yl)methylene-2H-1,4-benzothiazin-3(4H)-one



2-(1-(4-acetoxybutyl)-7-azaindol-3-yl)methylene-2H-1,4-benzothiazin-3(4H)-one